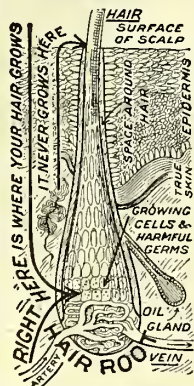


NEARLY **£3,000** OF PROFITS

WHICH BELONG TO CHEMISTS GO TO TOBACCONISTS BECAUSE THEY SELL

**PINOZA** CIGARETTES, CIGARS,  
TOBACCO AND SNUFF,Also **PINOZA VOICE LOZENGES.**These goods should be sold by chemists, and each day more chemists  
are realising that they are of remarkable value for removing**BRONCHITIS and ASTHMA, and Preventing INFLUENZA.**  
—and Curing—**THE "LANCET"** says: "Pine Oil volatilized in 'PINOZA' Cigarettes exerts a soothing effect on  
affections of the respiratory organs.**"THE CHEMIST AND DRUGGIST"** says: "Pine Oil used in 'PINOZA' Tobaccos has excellent antiseptic properties,  
and is found of benefit in Throat and Chest complaints."The finest Tobacco is impregnated with Pinoza Extract, which is volatilized  
by the heat of the burning tobacco, and carried in by the smoke. It covers  
the lining of the throat, nose and chest, soothing and allaying the irritation.**PINOZA VOICE LOZENGES REMOVE HOARSENESS, &c.****PINOZA BRINGS NEW CUSTOMERS.  
WRITE FOR SHOW CARDS AND SPECIAL OFFER.****PINOZA DEPOT: 47 HOLBORN VIADUCT, LONDON.**

ON P.A.T.A. LIST.

**CAPSULOIDS**  
FOR FALLING OUT or PREMATURELY GREY**HAIR**LOOK AT THIS PICTURE OF A GROWING  
HAIR GREATLY MAGNIFIED and note that all  
growth takes place only from the very  
bottom of the root, and not at the sur-  
face of the scalp. You see the root  
contains those harmful germs which  
multiply, soften the root, rob the hair  
of its colour, make the hair fall out,  
and finally destroy the root altogether.  
CAPSULOIDS are dissolved in the  
stomach and pass into the blood. They  
destroy the germs, nourish the roots,  
and cause healthy, vigorous growth of  
the hair, and the only remedy that will  
do this is CAPSULOIDS.**PRICE TO PUBLIC, 2/3 per box.**For quantities of not less than 3 gross,  
22/- per dozen. 1 gross, 22/6 per dozen.  
4 dozen, 23/- per dozen.The above will be subject to a dis-  
count of 6d. per dozen if payment is  
made on or before the 10th of the month  
following month of purchase, and a  
further discount of 3d. per dozen ONLY IF CASH  
ACCOMPANIES THE ORDER.

For less than 4 dozen. 23/6 per dozen, net cash with order.

FOR EXPORT CAPSULOIDS ARE SPECIALLY PACKED IN GLASS TUBES.

**CAPSULOIDS (1909) Ltd.,** 47 Holborn Viaduct,  
LONDON, E.C.

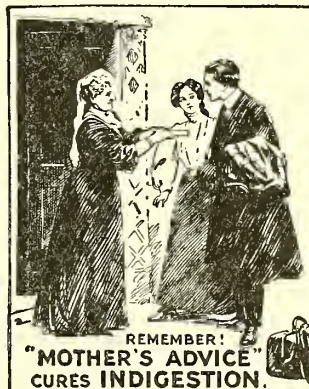
ON P.A.T.A. LIST.

**"MOTHER'S ADVICE"**

(Formerly called CICFA).

**CURES INDIGESTION**

CONSTIPATION, FLATULENCE, &amp; ACIDITY.

Neatly  
packed  
in  
Glass  
Tubes.Price :  
1/1½ and  
2/9  
per box.Large  
Size  
contains  
3 times  
as  
many  
as  
Small  
Size.For quantities of £10 and upwards, small size, 10/9,  
large size, 27/-.For quantities of £5 and upwards, small size, 11/-,  
large size, 28/-.

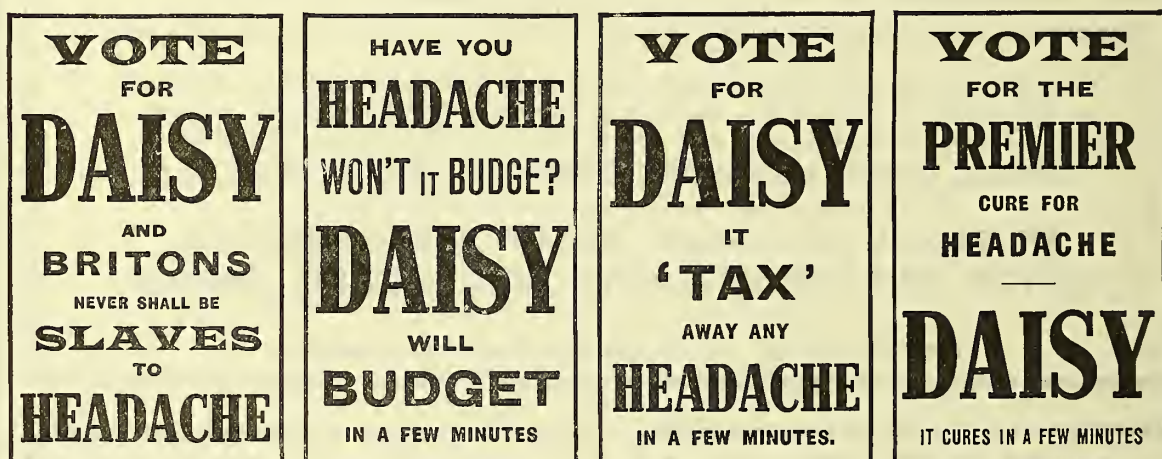
Subject to 2½ per cent. discount. CASH WITH ORDER.

For smaller quantities: Small size, 11/3 per doz. net cash with order.

quantities: Large size, 29/6 " " " " " "

**CAPSULOIDS (1909) Ltd.,** 47 Holborn Viaduct,  
LONDON, E.C.

# "DAISY" ELECTION POSTERS.



(Demy folio size, 18"×11", printed black on white).

The Election is all the rage just now. Let us use it to our mutual profit. These bills are just the thing; suitable alike for posting on the windows or door or outside the shop. They are topical and effective advertisements. They will interest and amuse the public. Certainly they will help to sell "Daisy." There are lots of headaches about. There will be more before Parliament re-assembles. Daisy is P.A.T.A. protected. The profit is right. Our Tariff is advantageous to direct buyers. Send us your orders.

We have already sent out close on 20,000 of these posters. We will send a supply, or an extra supply, to any chemist in response to a post-card.

**WRITE AT ONCE.**

**DAISY, Ltd., Mammoth Works, LEEDS.**

ESTABLISHED 1893.

Telegrams: "DAISY LEEDS."





# EXTRACT OF MALT & COD LIVER OIL

*This is an admirable preparation which under ordinary conditions keeps well and sells freely at a good margin of profit. The finest Norwegian Cod Liver Oil is alone used in its manufacture combined with English Malt and the Extract forms a valuable Food in all wasting Diseases.*



IN AMBER BOTTLES  
AND CARTONS

½ lb. Size

1 lb. "

2 lb. "

SUPPLIED ALSO  
IN BULK.

Samples, Showcards,  
&c. free of charge with  
choice of labels.

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VIENNA	1883
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**BAISS BROTHERS & STEVENSON,**  
CONTRACTORS TO  
H.M. GOVERNMENT *Jewry St. London. E.C. (Limited)*

Supplied also in Screw-Capped Square Jars.



# Peps

**Enormous Newspaper & Pamphlet  
Advertising, Attractive Window  
Shows & Counter Displays.**

Send Postcard for Display Terms to—

London Address—  
45 COWCROSS ST., E.C.

**C. E. FULFORD, LTD., LEEDS.**

# Zam-Buk



**ALWAYS ADVERTISED—ALWAYS SELLING**

Now is the time to Exhibit  
a Zam-Buk Window Show!

Write for Window Show Booklet to—

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London Address—  
45 COWCROSS ST., E.C.

**15 GREEK STREET, LEEDS.**



## INDEX TO ADVERTISEMENTS IN THIS ISSUE.

HEAD OFFICE: 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMISTS LONDON." Telephone No. 812, Bank.  
BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA.

Page	Page	Page	Page
Aerators, Ltd. .... 29	Cooper & Co. .... 46	Huntley, Boorne & Stevens, Ltd. .... 20	Preston's Liverpool Distillery Co. .... 44
Allcock Mfg. Co. .... 48	Cox, A. H., & Co., Ltd. .... 4	Hymans, H., & Co. .... 40	Quell, H. C., & Co. .... 15
Alliance Drug & Chemical Co. .... 39	Daisy, Ltd. .... 37	Ilford, Ltd. .... 46	Rendell, W. J. .... 45
Anglo-American Drug Co., Ltd. .... 36	Day & Sons (Crewe), Ltd. .... 14	International Chem. Co. .... 12	Robinson & Sons, Ltd. .... 26
Atkinson & Barker .... 37	Dodge & Olcott Co. .... 47	International Distributing Co., Ltd. .... 12	Robinson, B., & Co., Ltd. .... 15
Bailey, W. H., & Son .... 45	Ecosolent Compounds, Ltd. .... 20	Isaacs, I., & Co. .... 13	Rowland, A., & Sons .... 80
Baies Bros. & Stevenson, Ltd. .... 5	Edinburgh Central School of Pharmacy .... 32	Japan-British Exhibition .... 22	Sanitas Co., Ltd. .... 32
Barker, F. H. .... 20	Egglossa Mfg. Co. .... 18	Kent, G. B., & Sons, Ltd. .... 43	Scott & Bowne, Ltd. .... 46
Bash & Co. .... 20	Erasmie Co., Ltd. .... 45	Kilner Bros., Ltd. .... 32	Sechutze, F., & Co. .... 49
Bath and West of England School of Pharmacy .... 42	Esfon .... 11	Lambert Pharmacal Co. .... 17	Seabury & Johnson .... 17
Beecham, T. .... 44	Essences, Ltd. .... 16	Lescol Perfumery Co. .... 46	Seymour, J. .... 18
Beiersdorf, P., & Co. .... 22	Eucryl, Ltd. .... 38	Levermore, A., & Co. .... 20	Shaw, H., & Co. .... 46
Berdoo & Fish .... 36	Evans Sons Lescher & Webb, Ltd. .... 28	Liverpool School of Pharmacy .... 28	Singleton & Cole, Ltd. .... 40
Bidwell, Bidwell & Co. .... 36	Exchange Column .... 46	Lofthouse & Saltmer .... 20	Smith, T. & H., Ltd. .... 28
Bishop, A., Ltd. .... 38	Fellows' Medical Mfg. Co., Ltd. .... 6	London College of Chemistry .... 44	Solazzi .... 34
Boehring, C. F., & Soehne .... 13	Fennings, A. .... 46	Mason Bros. & Chapman .... 30	Standard Tablet & Pill Co. .... 46
Boehring, C. H., Sohn .... 38	Fentiman, A. G. .... 46	Maw, S., Son & Sons .... 46	Stevens, P. A. .... 24
Bontcheff & Kidoff .... 20	Fentiman, A. J., & Co. .... 46	Mawson & Co. .... 14	Stipendium Stopper Co. .... 46
Borough Polytechnic Institute .... 29	Fink, F., & Co. .... 80	May & Baker, Ltd. .... 26	Taylor & Co. .... 17
Brett & Co. .... 29	Fletcher, Fletcher & Co., Ltd. .... 21	McKesson & Robbins .... 80	To-Kalon Mfg. Co., Ltd. .... 48
Bristol-Myers Co. .... 29	Forshaw, E., & Son, Ltd. .... 21	Millar, A., & Co., Ltd. .... 26	Toogood, Wm., Ltd. .... 80
British Automatic Aerators, Ltd. .... 29	Fuerst Bros. .... 6	Mumford, G. S. .... 20	Tomlinson & Hayward, Ltd. .... 47
British DiaMalt Co. .... 18	Fulford, C. E., Ltd. .... 48	Muter's (South London) School of Pharmacy .... 20	Tye & Son .... 26
Bronnley, H., & Co., Ltd. .... 18	Fulham Pottery and Cheavin Filter Co., Ltd. .... 48	National Cash Register Co., Ltd. .... 22	Vichy Water .... 45
Burge, Warren & Ridgley, Ltd. .... 80	Goodall, Backhouse & Co. .... 46	Newbery, F., & Sons, Ltd. .... 22	Viscose Development Co., Ltd. .... 44
Burrough, J., Ltd. .... 33	Halder, E. C. .... 47	Nitsche & Günther .... 23	Walker, Troke & Co. .... 42
Burroughs Wellcome & Co. .... 44	Hall & Ruckel .... 47	Norwich Crepe Co. (1856), Ltd. .... 47	Wand Manfg. Co. .... 38
Buvo, Ltd. .... 44	Harker, C. .... 24	Oakey, J., & Sons, Ltd. .... 16	Wander, Dr. .... 47
Cadbury Bros. .... 47	Harrison & Waide .... 42	O'Neill, S., & Sons, Ltd. .... 40	Wardale & Co. .... 34
Callard & Co. .... 27	Hawlett & Son, Ltd. .... 21	Orridge & Co. .... 36	Warwick Bros. .... 40
Camwal, Ltd. .... 3	Hicks, J. J. .... 46	Paine & Co., Ltd. .... 25	Washington Chemical Co., Ltd. .... 16
Capsuloids (1909), Ltd. .... 37	Hollingshurst & Co. .... 28	Parke, Davis & Co. .... 35	Whitaker & Co. .... 47
Cartwright, W. B., Ltd. .... 40	Horner & Sons .... 19	Pears, A. & F., Ltd. .... 13	Wilson Vet. Medicine Mfg. Co. .... 40
Chameleon Oil Co., Ltd. .... 41	Hovenden, R., & Sons, Ltd. .... 46	Perken, Son & Co., Ltd. .... 13	Wolfensberger & Co. .... 44
Chemists' Co-operative Wholesale .... 47	Hughes, E. Griffiths .... 46		Youldon, E., Ltd. .... 13
Christy, T., & Co. .... 28			Zahradnik, J. .... 14
Coleman & Co., Ltd. .... 28			Zimmerman, A. & M. .... 14

## THE BUYERS' GUIDE.

In this section, under appropriate headings, are given the names of firms advertising in this or other issues of the month. No charge is made to advertisers for the insertion of their names, but only those who have contracts current for advertising in this journal are mentioned. The headings refer generally to the classes of goods actually advertised, but this is not a detailed Guide such as appears in "The Chemists' and Druggists' Diary." Inquiries addressed to the "Information Department," THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., regarding articles not appearing in these pages receive prompt attention, as shown weekly in the editorial pages.

## ACETIC ACID

Boehm, Fredk., Ltd.  
Crown Chemical Works, Ltd.

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Allison, J. R. B.  
Degen, F. A.  
Japan-British Exhibition, 1910  
Slack, Bernard  
Smith, W. H., & Son

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British Automatic Aerators, Ltd.  
(See also SODA FOUNTAINS)

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Stamer, Dr. Richard  
(See also ESSENCES, SOL.)

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Madoery, H.  
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Morson, T., &amp; Son

Salle, H., &amp; Co.

Smith, T. &amp; H., Ltd.

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Scrubb & Co., Ltd.

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Macfarlan, J. F., & Co.  
Smith, T. & H., Ltd.  
Zimmermann, C., & Co.  
(See also CHLOROFORM)

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## ANTIMONY AND ITS SALTS

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Wehner, A. S., &amp; Co.

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## BALANCES

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## BANDAGE

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Wood, Vincent

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Solport Bros.

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Martindale's "Extra Phar."

Spatula Publishing Co.

Squire's "Companion"

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Maw, S., Son & Sons  
May, Roberts & Co.  
Mysantol Co.

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Tomlinson & Hayward, Ltd.

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Christy, T., & Co.

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Carmichael, F. J., & Co.

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Alliance Drug & Chemical Co.  
Chemist's Co-operative Wholesale  
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Viscose Co., Ltd. (self-fixing)

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American Animal Therapy Co.  
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Mawson & Co.  
Parke, Davis & Co.  
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Wand Mfg. Co.  
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Woolley, J., Sons & Co.

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Brunner, Mond & Co., Ltd.  
Burroughs Wellcome & Co.  
Evans Sons Lescher & Webb  
Hoffmann-La Roche, Ltd.  
Howards & Sons, Ltd.  
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May & Baker, Ltd.  
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Evans Sons Lescher & Webb, Ltd.  
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(See also WHOLESALERS)

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British Drug Houses, Ltd.  
Devold, Peder  
Evans Sons Lescher & Webb, Ltd.  
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Oldfield, Pattinson & Co.  
Southall Bros. & Barclay, Ltd.  
Woolley, Jas., Sons & Co., Ltd.  
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Zimmermann, A. & M.

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(See also DAIRY ADJUNCTS)

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Maw, S., Son & Sons  
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Eburite Paper Co.

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**CREOSOTE**

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Norwich Crêpe Co. (1856), Ltd.  
Wood, Vincent

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May & Baker, Ltd.

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Fentiman, A. G.  
Fentiman, A. J., & Co.  
Halder, E. C.  
Tayler & Co.  
Wardale & Co.

**DENTAL ANAESTHETIC**

Martindale, W.

**DENTIFRICES**

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Beiersdorf, P., & Co.  
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Blackie, R.  
Burroughs Wellcome & Co.  
Calvert, F. O., & Co.  
Christy, T., & Co.  
Cook, E., & Co., Ltd.  
Encryl, Ltd.  
Hall & Ruckel  
Jewsbury & Brown  
Lambert Pharmacal Co.  
McKesson & Robbins  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Odol Chemical Works  
Rowland, A., & Sons  
Standard Tablet & Pill Co.  
Woods, W., & Son  
Woolley, J., Sons & Co., Ltd.

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Fink, F., & Co.

**DIABETIC BREAD AND FOOD**

Callard & Co.  
Van Abbott, G., & Sons

**DIGESTIVE PRODUCTS**

Armour & Co., Ltd.  
Benger's Food, Ltd.  
Fairchild Bros. & Foster  
Parke, Davis & Co.  
Squire & Sons  
Zimmermann, C., & Co.

**DISINFECTANTS**

Baiss Bros. & Stevenson, Ltd.  
Burt, Boulton & Hayward, Ltd.  
Calvert, F. O., & Co.  
Condy & Mitchell, Ltd.  
Cook, E., & Co., Ltd.  
Dalmas, A. de St., & Co.  
Edwards, W., & Son  
Jeyss' Sanitary Compounds, Ltd.  
Kay Bros., Ltd.  
Lambert Pharmacal Co.  
Sanitas Co., Ltd.  
Tomlinson & Hayward, Ltd.  
Willows, Francis B. & T.  
Wright, Layman & Umney, Ltd.  
Zimmermann, C., & Co.

**DOSE REGULATORS**

Maw, S., Son & Sons  
Reuter, R. J.

**DRUGGISTS' SUNDRIES**

Ayrton, Saunders & Co., Ltd.  
Barclay & Sons, Ltd.  
Berliner, Arthur  
Burge, Warren & Ridgley  
Bush, H. W., & Co., Ltd.  
Chemist's Co-operative Wholesale  
Christy, T., & Co.  
Edwards, W., & Son  
Evans Sons Lescher & Webb, Ltd.  
Hewlett, C. J., & Sons  
Hovenden, R., & Sons, Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co., Ltd.  
Newbery, F., & Sons, Ltd.  
Pothe, H., & Co.  
Quelch, H. C., & Co.  
Reuter, R. J.  
Sangers'  
Schutze, F., & Co.  
Shirley Bros., Ltd.  
Solport Bros.  
Southall Bros. & Barclay, Ltd.  
Tidman & Son, Ltd.  
Toogood, W., Ltd.  
Viscose Co., Ltd.  
Wattenbach, O.  
Wood, Vincent  
Woolley, J., Sons & Co.

**DRUGS, CRUDE**

Carmichael, F. J., & Co.  
Gathergood's Exor.  
Horner & Sons  
Hymans, H., & Co.  
Potter & Clarke, Ltd.  
Ransom, W., & Son  
Salle, H., & Cie.

**DRYSALTERIES**

Harker, Stagg & Morgan, Ltd.

**DYES**

Judson, D., & Son  
Whitaker & Co. (Hst)

**EAR MOPS.**

Cooper, R. H., & Co.

**EAU DE COLOGNE**

Farina, J. M.  
Farina, J. M. (No. 4)  
Fickus, Courtenay & Co.  
McCracken, J., & R.  
Schutze, F., & Co.

**EDUCATIONAL INSTITUTIONS**

Bath and West of England College of Pharmacy  
Borough Polytechnic  
British Optical Institute  
Edinburgh Central School of Pharmacy  
Glasgow School of Pharmacy  
Leeds College of Pharmacy  
Liverpool School of Pharmacy  
London College of Pharmacy  
Manchester College of Pharmacy  
Mater's (So. Lond.) School of Pharmacy  
North of England School of Pharmacy  
Northern College of Pharmacy  
Nottingham School of Pharm.  
Pharmaceutical Society's School of Pharmacy  
South of England College of Pharmacy

**EFFERVESCENT PREPS.**

Allen & Hanburys, Ltd.  
Bishop, Alfred, Ltd.  
Blackie, R.  
Bristol-Myers Co.  
Cox, A. H., & Co., Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Goodall, Backhouse & Co.  
Howards & Sons, Ltd.  
Kutnow, S., & Co., Ltd.  
Lorimer & Co., Ltd.  
Newball & Mason  
Potter & Clarke  
Standard Tablet & Pill Co.  
Sturge, John & E.  
Tyrer, T., & Co., Ltd.  
Wright, Layman & Umney

**ELASTIC HOSIERY**

Ayrton, Saunders & Co., Ltd.  
Berliner, Arthur  
Burge, Warren & Ridgley, Ltd.  
Haywood, J. H.  
Maw, S., Son & Sons  
Wood, Vincent

**EMERY AND CLOTH**

Oakey, J., & Sons, Ltd.



**EMULSIONS, COD-LIVER OIL, ETC.**

Allen & Hanbury, Ltd.  
Ayrton, Saunders & Co., Ltd.  
Baile Bros. & Stevenson, Ltd.  
Blackie, Robert  
British Drug Houses, Ltd.  
Faulding, F. H., & Co.  
Marker, Stagg & Morgan, Ltd.  
Lorimer & Co., Ltd.  
Oldfield, Pattinson & Co.  
Parke, Davis & Co.  
Scott & Bowne, Ltd.  
Tolkien, O., & Co.  
Woolley, Jas., Sons & Co.

**ENEMAS**

Bailey, W. H., & Son  
Burge, Warren & Ridgley  
Daval Rubber Co.  
Maw, S., Son & Sons  
Toogood, W., Ltd.  
Warne, W., & Co., Ltd.

**ENTOMOLOG. APPARATUS**

Watkins & Doncaster

**EPSOM SALTS**

Howards & Sons, Ltd.

**ESSENCES, CONCRETE**

Lautler Fils  
Murray, O., & Co., Ltd.  
Schmoller & Bompard

**ESSENCES, SOL. AND FRUIT**

Alliance Drug & Chem. Co.  
Barnett & Foster  
Bush, W. J., & Co., Ltd.  
Evans Sons Lescher & Webb  
Hay, Wm., Ltd.  
Lautler Fils  
London Essences Co.  
Lorimer & Co., Ltd.  
Newball & Mason  
Spencer, J., Son & Co.  
Stevenson & Howell, Ltd.  
Zimmermann, A. & M.

**ETHERS**

Baile Bros. & Stevenson, Ltd.  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.  
White, A., & Sons

**EUCALYPTUS OIL**

Baile Bros. & Stevenson, Ltd.  
British Drug Houses, Ltd.  
Hymans, H., & Co.

**EXHIBITIONS**

Japan-British, 1910

**EXTRACT OF HERBS**

Newball & Mason  
Potter & Clarke

**EXTRACTS (MEDICINAL)**

Allen, Stafford, & Sons, Ltd.  
Chemist's Co-operative Wholesale  
Gathergood's Exor.  
Hewlett, O. J., & Son  
Parke, Davis & Co.  
Ransom, W., & Son  
(See also WHOLESALE DRUGGISTS)

**FEEDING BOTTLES**

Brefft, E., & Co., Ltd.  
Hovenden R., & Sons, Ltd.  
Kilner Bros., Ltd.  
Maw, S., Son & Sons  
Sangers'  
Southall Bros. & Barolay, Ltd.

**FILTERS (WATER)**

Berkfeld Filter Co., Ltd.

**FLESH GLOVES**

Sangers'

**FLYCATCHERS**

Deansmore Manfg. Co.  
Ford, Shapland & Co.  
Kay Bros., Ltd.  
Smith, J. H., & Co.  
Tunbridge & Wright

**FOODS, INFANTS'**

Allen & Hanbury, Ltd.  
Benger's Food, Ltd.  
Framo Food Co., Ltd.  
Lofthouse & Saltmer  
Natural Food Co., Ltd.  
Willows, Francis, B. & T.

**FOODS, SPECIAL**

Allen & Hanbury, Ltd.  
Bayer Co., Ltd.  
Benger's Food, Ltd.  
Brand & Co., Ltd.  
Burt, O. J.  
Buvo, Ltd.  
Callard & Co.  
Fairchild Bros. & Foster  
Framo Food Co., Ltd.

**FOODS, SPECIAL (continued)**

Menley & James, Ltd.  
Natural Food Co., Ltd.  
Wander, A.

**FORMALDEHYDE**

Burt, Boulton & Haywood

**FRUIT CRYSTALS**

Aerators, Ltd.

**FRUIT SYRUPS**

Idris & Co., Ltd.

**FULLER'S EARTH**

Mumford, G. S., & Sons

**FUMIGATORS**

Sanitas Co., Ltd.

**GELATIN AND GLUE**

Boehm, F., Ltd.

**GLASSWARE, CHEMICAL**

Zahradnik, Jos.

**GLAUBER'S SALT**

Bramwell, R., & Son  
Howards & Sons, Ltd.

**GLYCERIN**

Boehm, F., Ltd.  
Price's Patent Candle Co.

**GLYCERIN PLANT**

Forshaw, E., & Son, Ltd.

**GLYCEROPHOSPHATES**

Pointet & Girard

**GOLD PAINT**

Judson, D., & Son

**GRINDERS**

Allen, Stafford, & Sons, Ltd.  
Goodall, Backhouse & Co.  
Willows, Francis, B. & T.

**GUMS**

Fink, F., & Co.

**HAIR PREPARATIONS**

Anglo-Continental Trading Co.  
Capenloids (1909), Ltd.  
Chesebrough Manfg. Co.  
Edwards' "Harlene" Co.  
Egglossa Manfg. Co.  
Harker, Stagg & Morgan  
Herpicide Co.  
John Strange Winter  
Robare's Aureoline  
Rowland, A., & Sons  
To-Kalon Manfg. Co., Ltd.

**HAT DYES**

Whitaker & Co.

**HAT RENOVATORS**

Christy, T., & Co.

**HEATING APPARATUS**

Clark, S., & Co.  
Wright, John, & Co.

**HERBS**

Carmichael, F. J., & Co.  
Potter & Clarke

**HOMOEOPATHIC MEDICINES**

Ashton & Parsons, Ltd.  
Epps, James, & Co.  
Keene & Ashwell, Ltd.  
Leath & Ross

**HOTELS**

Esmond Hotel  
Kingsley Hotel  
Thackeray Hotel

**HOT-WATER BOTTLES**

Berliner, Arthur  
Burge, Warren & Ridgley  
Dunlop Rubber Co., Ltd.  
Fulham Pottery & Cheavin  
Filter Co., Ltd.  
Galen Mfg. Co., Ltd.  
Hutchinson Co.  
Maw, S., Son & Sons  
May, Roberts & Co.  
Southall Bros. & Barolay  
Tompkins, James, Ltd.  
Wood, Vincent

**HYDROGEN PEROXIDE**

May & Baker, Ltd.  
Sanitas Co., Ltd.  
Tyrer, T., & Co., Ltd.

**HYPOPHOSPHITES**

May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.

**INHALERS**

Christy, T., & Co.  
Sangers'

**INK**

Bewley & Draper, Ltd.  
Hickinson, A. B.

**INSECTICIDES**

Christy, Thos., & Co.  
Smith, B. A., & Co.  
Tomlinson & Hayward, Ltd.  
Vaporite-Strawson Co., Ltd.

**INSECT POWDER**

Boehm, F., Ltd.  
Smith, B. A., & Co.

**IODINE AND IODIDES**

Howards & Sons, Ltd.  
Morsen, T., & Son

**ITROSYL**

Fletcher, Fletcher & Co.

**JARS AND POTS**

Brefft, E., & Co., Ltd.  
Bush, H. W., & Co., Ltd.  
Christy, T., & Co.  
Johnsen & Jorgensen, Ltd.  
Kilner Bros., Ltd.  
Lang, Jules, & Son  
Maw, S., Son & Sons  
Pothe, H., & Co.  
Reuter, R. J.  
Stipendium Stopper Co.  
Toogood, W., Ltd.  
**LACTIC FERMENTS**  
Allen & Hanbury, Ltd.  
Cox, Arthur H., & Co., Ltd.  
Davies, Sons & Co.  
Lloyd, T. Howard, & Co.  
Martindale, W.  
Parke, Davis & Co.  
Standard Tablet Co.  
Willox, Jozean & Co.

**LANOLINE**

Burroughs Wellcome & Co.  
Christy, T., & Co.

**LARD**

Chemist's Co-operative Wholesale  
Ewen, J., & Sons

**LIME JUICE AND CORDIAL**

Evans Sons Lescher & Webb  
Goodall, Backhouse & Co.  
Idris & Co., Ltd.

**LINSEED, CRUSHED, ETC.**

Allen, Stafford, & Sons  
Mumford, G. S., & Sons

**LINTS**

Liverpool Lint Co.  
May, Roberts & Co., Ltd.  
Robinson & Sons, Ltd.  
Vernon & Co., Ltd.

**LIQUORICE JUICE**

Boehm, F., Ltd.  
British Drug Houses, Ltd.  
Carmichael, F. J., & Co.  
Evans, Gray & Hood  
Evans Sons Lescher & Webb, Ltd.  
Horner & Sons  
Jackson, E. E.  
Mumford, G. S., & Sons

**LIQUORS, CONC., ETC.**

Allen, Stafford, & Sons, Ltd.  
Fletcher, Fletcher & Co.  
Hewlett, O. J., & Son  
Robinson, B., & Co.

**LITHIA SALTS**

British Drug Houses, Ltd.  
May & Baker, Ltd.  
Merck, E.

**LOOFHANS**

International Sponge Importers

**LOZENGES**

Cox, A. H., & Co., Ltd.  
Denoual, J., & Co.  
Jackson, E. E.  
Meggeson & Co., Ltd.  
Potter & Clarke  
Raines & Co.  
Warrick Bros.

**MACHINERY, PHARMACAL**

Allen & Hanbury, Ltd.  
Bennett, E., & Son, Ltd.  
Bennett, Sons & Shears, Ltd.  
Forshaw, E., & Son, Ltd.  
Gardner, Wm., & Sons, Ltd.  
Pindar, J. W., & Co.  
Smith, B. A., & Co.  
Stokes, F. J., Machine Co.  
Thompson & Capper (Stokes)  
Wilkinson, S. W., & Co.

**MAGNESIA AND ITS SALTS**

Henry, T. & W.  
Howards & Sons, Ltd.  
May & Baker, Ltd.  
Parke, Davis & Co.  
Washington Chemical Co.

**MENTHOL CONES**

Bush, H. W., & Co., Ltd.  
Maw, S., Son & Sons

**MAILING CASES**

Estes, E. B., & Sons

**MARKING INK**

Hickinson, A. (Bond's)

**MEDICINE CHESTS**

Burroughs Wellcome & Co.  
Keene & Ashwell, Ltd.  
Leath & Ross  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.

**MALT EXTRACT AND PREPS**

Allen & Hanbury, Ltd.  
Blackie, R.  
British Dia Malt Co.  
Burroughs Wellcome & Co.  
Evans Sons Lescher & Webb  
Hewlett, O. J., & Son  
Lorimer & Co., Ltd.  
Montgomerie & Co., Ltd.  
Oppenheimer, Son & Co., Ltd.  
Paine & Co., Ltd.  
Southall Bros. & Barolay, Ltd.  
Tolkien, C., & Co.  
Woolley, Jas., Sons & Co., Ltd.  
Wright, Layman & Umney

**MEASURES**

Beatson & Co.  
Bush, H. W., & Co., Ltd.

**MEAT EXTRACTS**

Armour & Co., Ltd.  
Brand & Co., Ltd.  
Buvo, Ltd.

**MERCURIALS**

Howards & Sons, Ltd.  
May & Baker, Ltd.  
Merck, E.  
Tyrer, T., & Co., Ltd.

**METEOROLOGICAL SETS**

Darton, F., & Co.

**METHYLATED SPIRIT**

Burrough, J., Ltd.  
Preston's Liverpool Distillery  
Randall & Son, Ltd.

**MILK APPARATUS**

Zimmermann, C., & Co.

**MILK SUGAR**

Zimmermann, C., & Co.

**MINERAL WATERS AND SALTS**

Apollinaris Co., Ltd.  
British Drug Houses, Ltd.  
Findlater & Co., Ltd.  
Hughes, E. Griffiths  
Ingram & Royle, Ltd.  
Vichy (State Springs)

**MIRRORS, TOILET**

Sangers

**MOTOR GOGGLES**

Darton, F., & Co.

**NAPHTHAS**

Burt, Boulton & Haywood

**OILS, ESSENTIAL**

Allen, Stafford, & Sons, Ltd.  
Alliance Drug & Chem. Co.  
Bush, W. J., & Co., Ltd.  
Chiris, Antoine  
Dodge & Olcott Co.  
Evans Sons Lescher & Webb, Ltd.  
Horner & Sons  
Jackson, J., & Co.  
Lantier Fils  
Lhermine & Cie  
London Essences Co.  
Mühlenthaler, Th., Ltd.  
Pasquale, S. F. de, & Frate  
Poppelreuter, W.  
Ransom, W., & Son  
Scheller, Emil, & Co.  
Schimmel & Co.  
Schmoller & Bompard  
Seymour, J.  
Spencer, J., Son & Co.  
Stevenson & Howell, Ltd.  
Todd, A. M., Co.  
Whittaker, Arthur  
Wright, Layman & Umney  
Zimmermann, A. & M.

**OILS, FATTY, ETC.**

Allen, Stafford, & Sons, Ltd.  
Price's Patent Candle Co.  
Schliemann's Oil & Ceresine Co.  
Smith, B. A., & Co.

**OILS, MINERAL**

Carmichael, F. J., & Co.  
Price's Patent Candle Co.

**OINTMENTS**

Blackie, R.  
Chemist's Co-operative Wholesale  
Oldfield, Pattinson & Co.

**OPTICAL CODS**

Botwright & Grey  
Darton, F., & Co.  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Nitsche & Günther  
Raphael's, Ltd.

**OTTO OF ROSE**

Bontoheff & Kidoff  
Reitmeyer & Co. (synthetio)  
Scheller, Emil & Co.  
Seraphimoff, S., & Co.  
Shipkoff & Co.



**OPTICAL INSTRUCTION**

British Optical Institute

**ORANGE WINE**

Melrose-Drover Co., Ltd.

**PACKED GOODS**

(See WHOLESALERS)

**PALATINOLIDS**

Oppenheimer, Son &amp; Co.

**PAPER TUBES**

O'Neill, S., &amp; Sons, Ltd.

**PASTILLES**

Allen &amp; Hanburys, Ltd.

Ascho, C. F., &amp; Co.

Burroughs Wellcome &amp; Co.

Denoual, J., &amp; Co.

Epps, James, &amp; Co.

Evans Sons Lescher &amp; Webb

Maggeeson &amp; Co., Ltd.

Warriack Bros.

**PATENT AGENT**

Barker, R. W.

**PERFUMES**

Allen &amp; Hanburys, Ltd.

Barclay &amp; Sons, Ltd.

Bronnley, H., &amp; Co., Ltd.

Bush, W. J., &amp; Co., Ltd.

Christy, T., &amp; Co.

Chuit, Naef &amp; Co.

Erasmo Co., Ltd.

Evans Sons Lescher &amp; Webb, Ltd.

Hawlett, C. J., &amp; Son

Hovenden, R., &amp; Sons, Ltd.

Lescol Perfumery Co.

McCraeken, J. &amp; R.

Maw, S., Son &amp; Sons

Morison, G. H., &amp; Co., Ltd.

Newbery, F., &amp; Sons, Ltd.

Queloh, H. O., &amp; Co.

Southall Bros. &amp; Barclay

Spencer, J., Son &amp; Co.

To-Kalon Mfg. Co., Ltd.

Warriack Bros.

West, T., &amp; Son

**PERFUME MATERIALS**

Bontoeff &amp; Kidoff

Bush, W. J., &amp; Co., Ltd.

Chiris, Antoine

Compagnie Morana

Lautier Fils

Mühlenthaler, Th., Ltd.

Murray, O., &amp; Co., Ltd.

Scheller Emil &amp; Co.

Schimmel &amp; Co.

Shipkoff &amp; Co.

Spencer, J., Son &amp; Co.

Zimmermann, O., &amp; Co.

**PESSARIES**

Burge, Warren &amp; Ridgley

Rendell, W. J.

**PETROLEUM EMULSION**

British Drug Houses, Ltd.

**PETROLEUM JELLY**

Carmichael, F. J., &amp; Co.

Chesebrough Mfg. Co.

Schliemann's Oil &amp; Ceresine Co.

**PHOTO. CHEMICALS**

Boehringer, C. F., &amp; Soehne

Burroughs Wellcome &amp; Co.

Merck, E.

**PHOTO. ENLARGERS,****PRINTERS, &C.**

Express Developing Co.

Halifax Photographic Co.

**PHOTO. GOODS**

Barclay &amp; Sons, Ltd.

Darton, F., &amp; Co.

Evans Sons Lescher &amp; Webb

Halifax Photographic Co.

Ilford, Ltd.

Lennon, Ltd.

May, Roberts &amp; Co.

Newbery, F., &amp; Sons, Ltd.

**PILL MAKERS**

Allen &amp; Hanburys, Ltd.

Ascho, C. F., &amp; Co.

Bishop, Alfred, Ltd.

British Drug Houses, Ltd.

Cox, A. H., &amp; Co., Ltd.

Davies, Sons &amp; Co.

Evans Sons Lescher &amp; Webb, Ltd.

Hawlett, C. J., &amp; Son

Howards &amp; Sons, Ltd.

Lloyd, T. Howard, &amp; Co.

McKesson &amp; Robbins

Parke, Davis &amp; Co.

Standard Tablet &amp; Pill Co.

Wand Mfg. Co.

Woolley, J., Sons &amp; Co., Ltd.

**PRINTERS**

Dudley &amp; Co.

Ford, Shapland &amp; Co.

Harrison &amp; Waide

Parkes, John, &amp; Co.

Smith, W. H., &amp; Son

Townsend, J., &amp; Sons

**PLASTERS**

Alcock Mngf. Co.

Berliner, Arthur

Beiersdorf, P., &amp; Co.

Dalmas A. de St., &amp; Co.

Leslies, Ltd.

Maw, S., Son &amp; Sons

Solport Bros.

**POLISHES (VARIOUS)**

Bradley &amp; Bourdas

Judson, Daniel, &amp; Son

Oakley, J., &amp; Son, Ltd.

**POSTERS**

Ford, Shapland &amp; Co.

**PROPRIETARY ARTICLES**

Anglo-American Drug Co.

Ashton &amp; Parsons, Ltd.

Barclay &amp; Sons, Ltd.

Bayer Co., Ltd.

Beecham, T.

Beiersdorf, P., &amp; Co.

Box, W. H.

British Drug Houses, Ltd.

Burgess, E.

Capsuloids (1909), Ltd.

Chameleon Oil Co., Ltd.

Christy, T., &amp; Co.

Coleman &amp; Co., Ltd.

Congreve, G. T.

Cox, A. H., &amp; Co., Ltd.

Curry, Henry

Daggett &amp; Ramsdell

Daisy, Ltd.

Danyss Virus, Ltd.

Da Silva &amp; Co.

Davenport, J. T., Ltd.

Day &amp; Sons (Orewe), Ltd.

Denoual, J., &amp; Co.

Ecosolent Compounds, Ltd.

Edwards, W., &amp; Son

Evans Sons Lescher &amp; Webb, Ltd.

Faulding, F. H., &amp; Co.

Fellows' Syrup

Fennings, Alfred

Ferris &amp; Co.

Fulford, C. E., Ltd.

Goodall, Backhouse &amp; Co.

Gordon, Murray &amp; Co., Ltd.

Guy's Tonic Co.

Harvey &amp; Co. (Dublin), Ltd.

Henry, T. &amp; W.

Hovenden, R., &amp; Sons, Ltd.

Hughes, E. Griffiths

Iohthylol Co.

International Chemical Co.

Iron-Ox Rem. Co., Ltd.

Kay Bros., Ltd.

Kutnow, S., &amp; Co., Ltd.

Lalor's, Dr., Phosphodyne

Lambert Pharmacal Co.

Lofthouse &amp; Saltmer

Lorimer &amp; Co., Ltd.

Martindale, W.

May, Roberts &amp; Co.

Menley &amp; James, Ltd.

Newbery, F., &amp; Sons, Ltd.

Odol Chemical Works

Owbridge, W. T., Ltd.

Pedey Co.

Phillips, Chas H., Chem. Co.

Quinine Bitters Mngf. Co., Ltd.

Reitmeyer &amp; Co.

Resinol Chemical Co.

Sangers'

Schimmel &amp; Co.

Scott &amp; Bowne, Ltd.

Squire &amp; Sons

Standard Tablet &amp; Pill Co.

Stedman's Teething Powders

Thermogene Co., Ltd.

Thompson &amp; Capper

Voss &amp; Co.

Walker &amp; Son

Wilcox, Jozeau &amp; Co.

Zimmermann, A. &amp; M.

Zotos, Ltd.

(See also DENTIFRICES and TOILET

ARTICLES

**PULVELLÆ**

Warriack Bros.

**PULVERETTES**

Oppenheimer, Son &amp; Co., Ltd.

**PUMPS**

Berkefeld Filter Co., Ltd.

**QUININE AND SALTS**

Boehringer, C. F., &amp; Soehne

Carmichael, F. J., &amp; Co.

Howards &amp; Sons, Ltd.

Pointet &amp; Girard

**RAPE OILS**

Hull Oil Mngf. Co.

**RAZORS**

Auto-Strop Safety Razor Co.

Hovenden, R., &amp; Sons, Ltd.

International Distributing Co

**RESINS AND RESINOIDS**

Allen, S., &amp; Sons, Ltd.

Allen &amp; Hanburys, Ltd.

Morson, T., &amp; Son

Ransom, W., &amp; Son

Smith, T. &amp; H., Ltd.

**RENNET**

Fullwood, R. J., &amp; Bland

Oldfield, Pattinson &amp; Co.

**RESPIRATORS**

Zimmer &amp; Co.

**RUBBER GOODS**

Burge, Warren &amp; Ridgley, Ltd.

Davol Rubber Co.

Dunlop Rubber Co., Ltd.

Galen Mfg. Co.

Haywood, J. H.

Hovenden, R., &amp; Sons, Ltd.

Hutchinson Co.

Maw, S., Son &amp; Sons

May, Roberts &amp; Co.

Warne, W., &amp; Co., Ltd.

**SACCHARIN**

Saccharin Corporation, Ltd.

**SALICIN**

Macfarlan, J. F., &amp; Co.

Smith, T. &amp; H., Ltd.

**SAMPLE CASES**

Keane, Thomas

**SANTONIN**

Smith, B. A., &amp; Co.

**SAPONIN**

Field, C. W.

Sthamer, Dr. R.

**SAUCES**

Goodall, Backhouse &amp; Co.

**SCALE PREPARATIONS**

Morson, T., &amp; Son

**SCALES, WEIGHING**

Maw, S., Son &amp; Sons

Parnall &amp; Sons, Ltd.

Southall Bros. &amp; Barclay, Ltd.

**SEA SALT**

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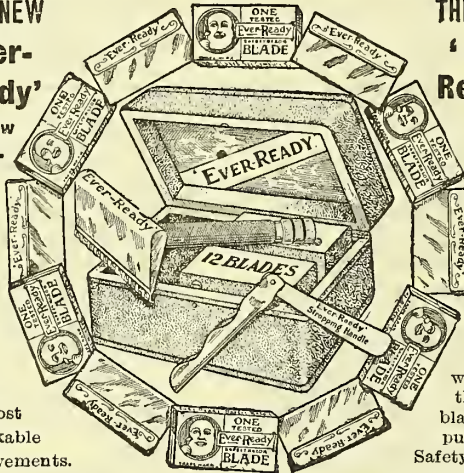
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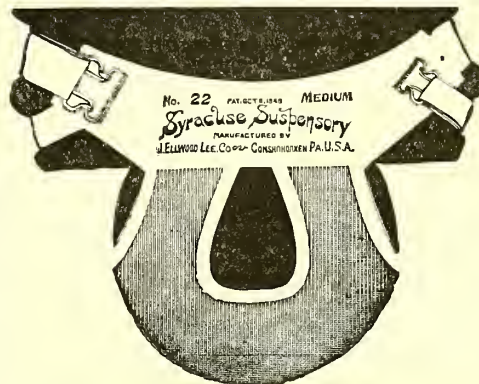
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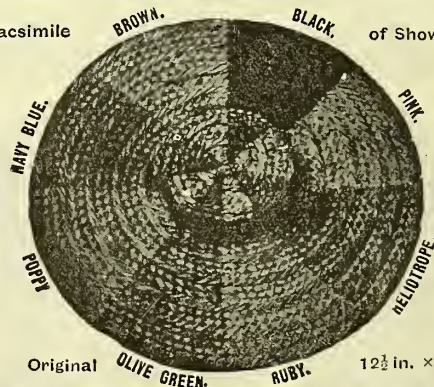
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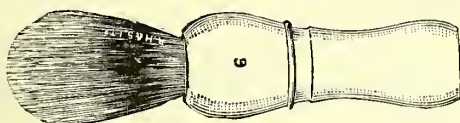
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# HOVENDEN'S SHAVING BRUSHES

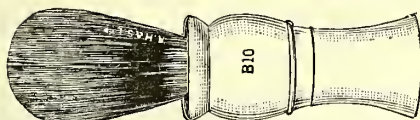
## BADGER HAIR—Best Quality.

Bone  
Broom  
Pattern.



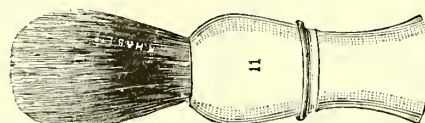
No.			s.	d.	No.			s.	d.
86	...	per doz.	16	6	7	...	per doz.	27	0
5	...	"	20	0	8	...	"	33	0
6	...	"	23	0					

Bone Hat  
Pattern,  
with Cup.



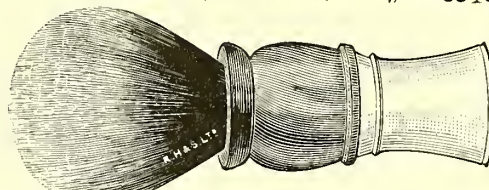
B 9	...	per doz.	21	0	B 11	...	per doz.	28	0
B 10	...	"	24	0	B 12	...	"	34	0

Bone Hat  
Pattern.

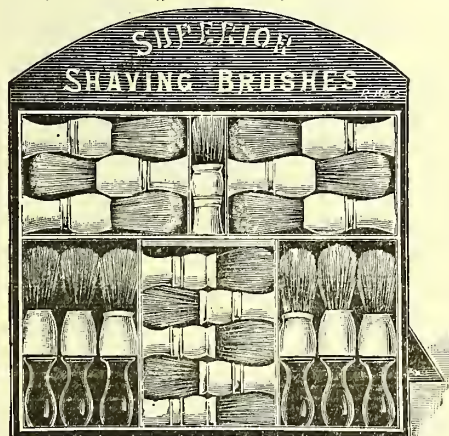


No.			s.	d.	No.			s.	d.
9	...	per doz.	20	0	11	...	per doz.	27	0
10	...	"	23	0	12	...	"	33	0

Horn  
Sockets,  
Bone  
Handles.



3	...	per doz.	25	0	6	...	per doz.	40	0
4	...	"	30	0	7	...	"	46	0
5	...	"	36	0	8	...	"	51	0

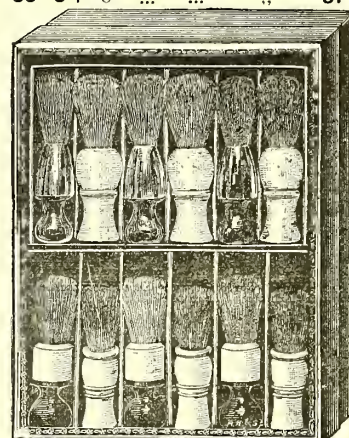


### 6d. LINE.

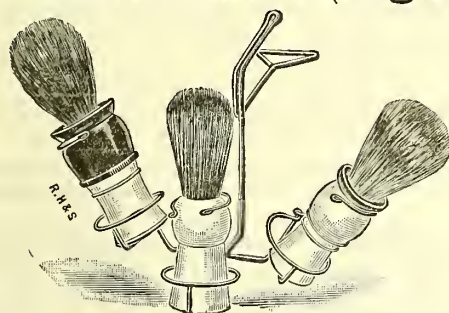
In attractive Glass Top Pale Blue Show Box, containing 1 dozen assorted Shaving Brushes, 4/- per box.

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Hovenden's Glass Top Case, containing 1 doz. 1/- Brushes (assorted), and  $\frac{1}{2}$  doz. 1/6 (as illustration on left), 14/6 complete.



### SHOW STAND (Rega. No. 543,005).



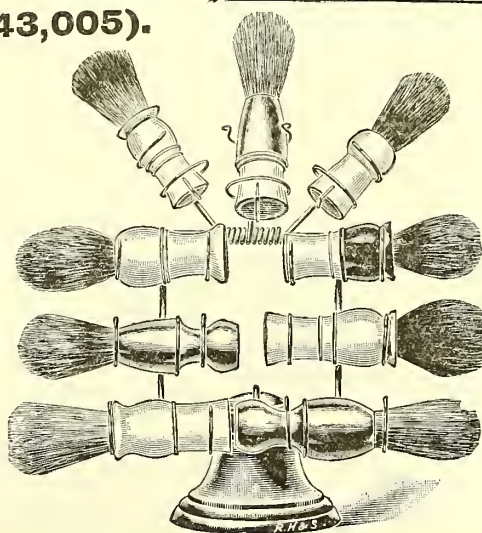
For effectively displaying 9 Brushes, and can be supplied with 1/- Brushes, from 7/6 complete.

With better quality Brushes, at 10/6, 12/6, 15/-, 18/-, and 21/- complete.

Clips for window shelf, to hold 3 Brushes, 2/9 complete.

Empty Stands for 9 Brushes, 1/3 each.

" Clips " 3 " -/9 "



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Mr. EDMUND CARTMELL	...	...	Kirkoswald, R.S.O.
" W. W. COWAP	...	...	Tarporley.
" A. E. HAMNETT	...	...	Waterloo.
" E. HERBERT JONES	...	...	Amlwch

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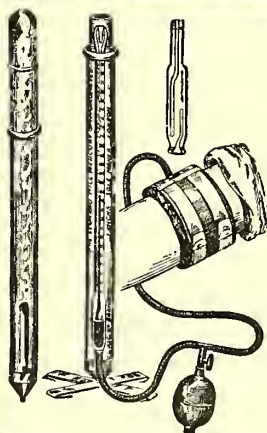
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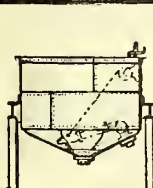
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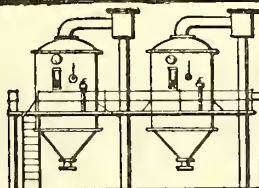
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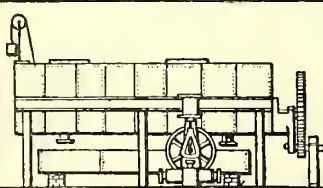
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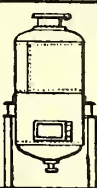
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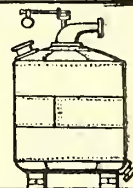
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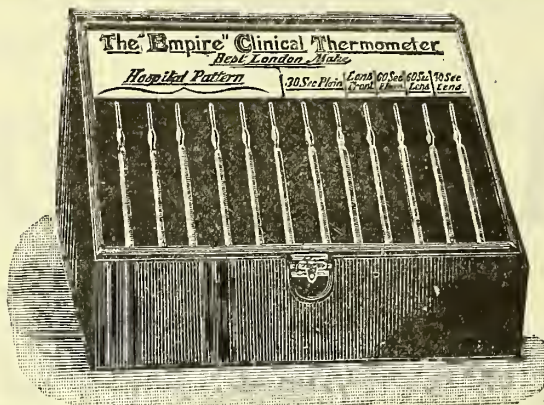


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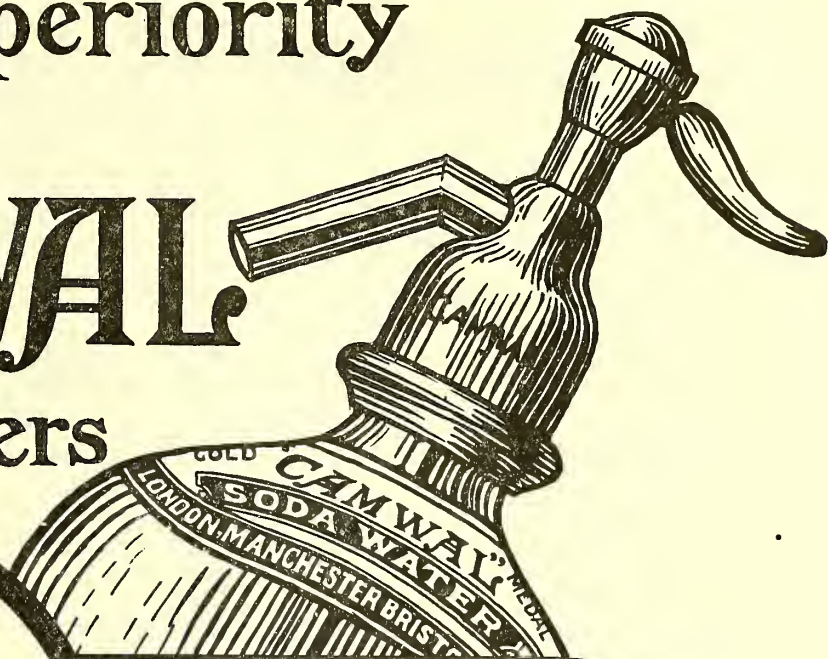
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1. 380	4. 366	7. 1060	9. 38
2. 23	5. 86	8. 382	10. 866
3. 39	6. 940		11. 0

No. 7 is DiaMalt, and the complete analysis showed:

**Total Solids 74 per cent.**

**Reducing Sugars (calculated as maltose)**  
**63.9 per cent.**

**Protein 6.52 per cent.**

**Dextrin 12.7 per cent.**

**Ash 1.2 per cent.**

**Diastasic Power 1060.**

See for yourself, by reference to the **"B.M.J."** of November 20, what the other ten are.

DiaMalt Preparations give the Chemist **30 per cent. CLEAR PROFIT**, secured by the P.A.T.A.; besides, he sells the preparations under a guarantee, thereby enhancing his reputation; and DiaMalt is the Extract which the Medical Profession now know is at the top.

*Obtainable from all Wholesale Houses or direct from*

**THE BRITISH DIAMALT CO., 11 & 13 Southwark St., London, S.E.**



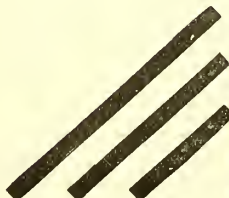
"Wake up, Pharmacists!  
... For for you ... is  
that other line of Tenny-  
son's tremendously true,  
'the old order changeth  
giving place to new.'"

*Letter from "Organiser" in  
"C. & D." January 1, 1910.*

Stock "Prana"  
**Sparklets!**

The "old order" of  
ready-made Mineral  
Waters is being replaced  
by the "new"—**Mineral  
Waters made at  
home.**

*Suggestion by  
Aerators, Ltd.  
Upper Edmonton, N.*



## THE GREAT SYPHON FILLER

Is the "Consol."

A purely business machine. No labour, no power, auto-  
matic. Best aeration. Four syphons filled for a penny.

Send for Catalogue and sheet of Chemists' testimonials.

**British Automatic Aerators, Ltd.**

22, 24 & 26 PAUL STREET, FINSBURY, LONDON.

Telegrams: "Consolaris."

Telephone: 6329 Central.

## SAL HEPATICA.

PUT UP FOR EXPORT:

Small size, 3 oz. bottle, in case.  
Medium " 7 " " "  
Large " 16 " " "

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane,  
Upper Thames Street, E.C.

The American Drug Stores, 4 Northumberland  
Avenue, Charing Cross, W.C., and Craven House,  
Kingsway, W.C.

Burgoyne, Burbidges, & Co., 16 Coleman Street,  
E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse  
Square.

Roberts & Co., 76 New Bond Street, W.





Telegraphic Address—  
"ELEVEN LONDON."**MAW'S**Telephone No.—  
LONDON WALL 3230 (4 lines).

# DISPENSING BOTTLES.

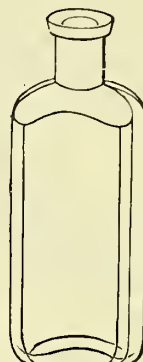
DISPENSING.  
Fig. 1273.OVAL.  
Fig. 1274.DIRECT SQUARE.  
Fig. 1275.

Fig. 1276.

OVAL-FRONTED  
FLAT.

## Prices in Crates of 6 to 8 Gross. CRATES FREE.

Not less than 1 gross of a size and graduation, 2 to 8 ounces.

EXPORT PACKAGES CHARGED AT NET COST F.O.B.

GREEN FLINT, **MAW'S**, WITH TRADE MARK—**SUPER**

2	3 & 4	6 & 8	10	12	16	20	24	32	40	OUNCE.
11/3	13/-	14/3	22/-	22/-	26/6	32/9	39/-	52/9	59/-	PER GROSS.

GREEN FLINT, **MAW'S**, WITH TRADE MARK—

2	3 & 4	6 & 8	10	12	16	20	24	32	40	OUNCE.
7/6	8/10	9/6	14/-	15/-	19/6	22/-	28/-	32/-	38/-	PER GROSS.

QUININE TINT, **MAW'S**, WITH TRADE MARK—

3	4	6	8	10	12	16	20	OUNCE.
10/10	10/10	11/6	12/-	16/-	18/9	23/6	27/-	PER GROSS.

## Prices ex Warehouse.

GREEN FLINT, **MAW'S**, WITH TRADE MARK—**SUPER**

2	3 & 4	6 & 8	10	12	16	20	24	32	40	OUNCE.
11/4	13/3	14/9	22/6	22/6	27/6	33/9	40/-	54/9	61/-	PER GROSS.

GREEN FLINT, **MAW'S**, WITH TRADE MARK—

2	3 & 4	6 & 8	10	12	16	20	24	32	40	OUNCE.
7/10	9/2	10/-	14/6	16/-	20/6	23/-	29/-	33/-	40/-	PER GROSS.

## VIALS, WHITE MOULDED, GOOD QUALITY.

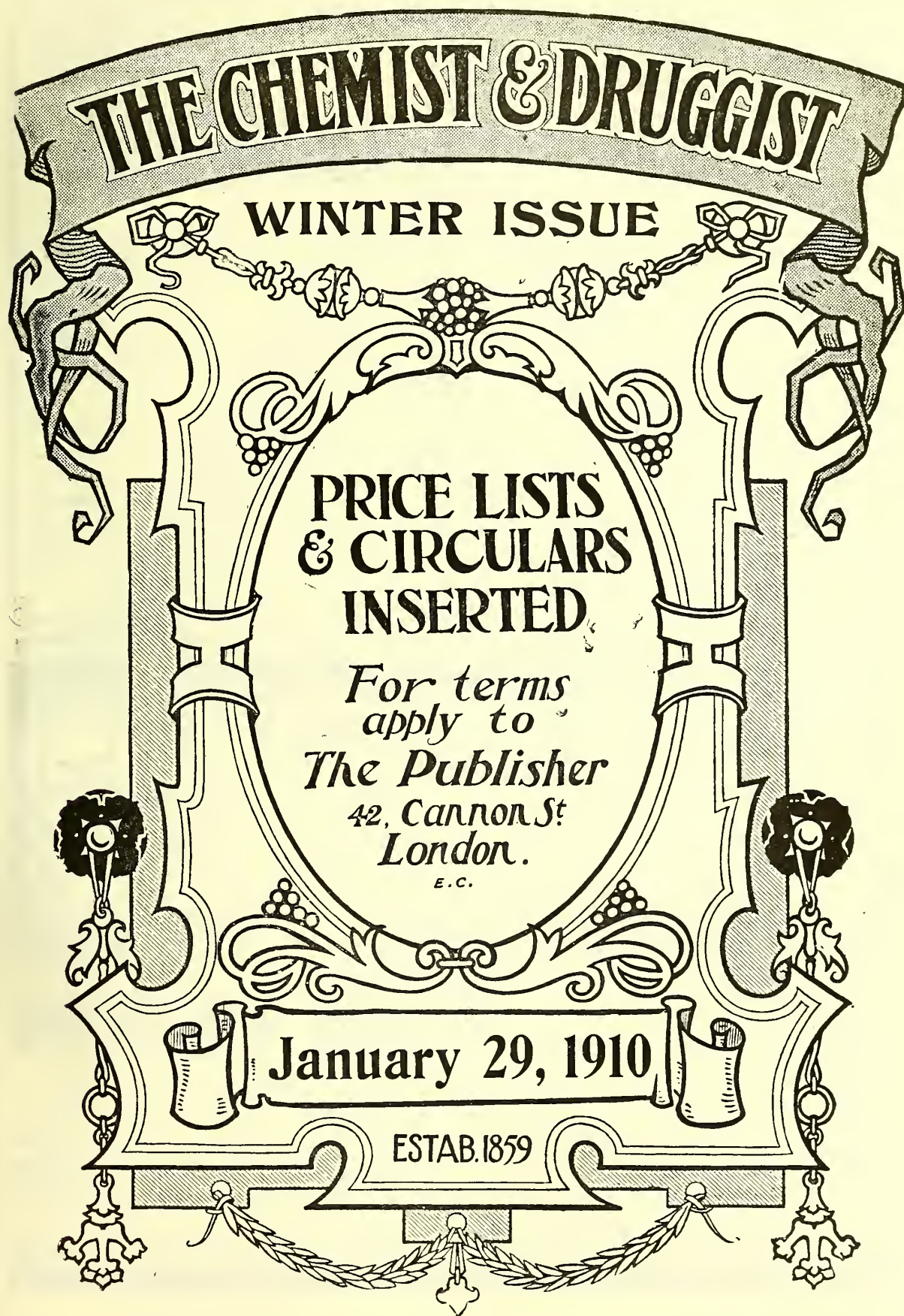
Long, Medium, Short or Round Shouldered.

2-dr.	$\frac{1}{2}$ -oz.	1-oz.	$1\frac{1}{2}$ -oz.	2-oz.	3-oz.	4-oz.
4/-	4/4	4/7	5/8	6/2	8/2	8/8

PER GROSS.

Usual Discount.**S. MAW, SON & SONS, 7-12 ALDERSGATE STREET, LONDON, E.C.**







# Egglossa

## For the HAIR

is now being largely advertised in the Ladies' Magazines

### SPECIAL OFFER.

During JANUARY and FEBRUARY we will send carriage paid to any part of the British Isles, on receipt of remittance for 8/-,

Per doz.


1 doz. boxes of ECCLOSSA SHAMPOO @ 8/-

Each box containing 7 2d. packets.

$\frac{1}{2}$  doz. 1/- ECCLOSSA HAIR TONIC ... @ 8/-

$\frac{1}{2}$  doz. 1/- ECCLOSSA BRILLIANTINE @ 8/-

These have a ready sale in many parts, and will realise 18/- for an outlay of 8/-

 Only one order at these prices can be supplied to any one shop.

**THE EGGLOSSA MFG. CO.**  
GLOUCESTER ROAD, BRISTOL.

GRAND PRIZE AWARDED

# LISTERINE


Alaska-Yukon-Pacific Exposition

— SEATTLE, 1909. —

GOLD MEDALS—Jamestown, 1907; Portland, 1905; St. Louis, 1904; Bronze Medal, Paris, 1900.

LISTERINE has also won the confidence of the profession by reason of the standard of excellence (both as regards antiseptic strength and pharmaceutical elegance), which has been so strictly observed in its manufacture during the many years it has been at their command.


## ON THE P.A.T.A. LIST


 In consequence of extensive advertising in the best London and Provincial Journals, coupled with its magnificent and unvarying quality, and the further fact that it is widely and regularly prescribed by the medical profession


# SCOTT'S

# EMULSION



 Sells quickly.

 All you have to do is to hand out the bottle and take in the money.

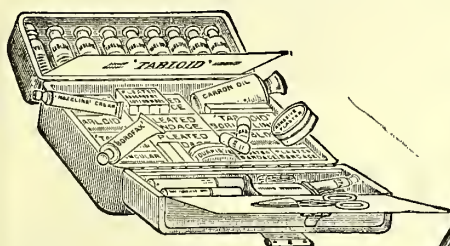
 More than that, people's experience of the first bottle prompts them to come to you again, so that every bottle sold promises the sale of more bottles. Once a customer, always a customer where Scott's is concerned.

Your stock will never be left long on your shelves—it is for you to see that you keep pace with the demand.

TRADE  
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**SCOTT & BOWNE, Ltd.** 10-11 Stonecutter Street, London, E.C.





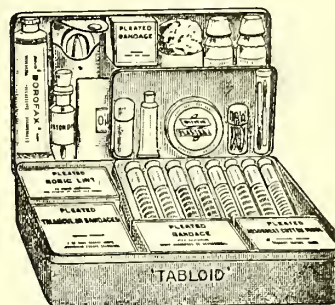
No. 702 'Tabloid' First-Aid  
(Registered)

Contains *eight* tubes of 'Tabloid' and 'Soloid' Brand products, 'Borofax,' 'Hazeline' Cream, Sal Volatile, Carron Oil, 'Tabloid' Bandages and Dressings, scissors, pins, etc., etc.

Measurements:  $7 \times 6\frac{1}{2} \times 2\frac{3}{4}$  in.

In Rex Red, Royal Blue or Brewster Green Enamelled Leather

Retail  
**50/-**



No. 715 'Tabloid' First-Aid  
(Registered)

Contains *eight* tubes of 'Tabloid' and 'Soloid' Brand products, Sal Volatile, 'Borofax,' Carron Oil, Plaster, Protective Skin, 'Tabloid' Bandages and Dressings, scissors, pins, etc.

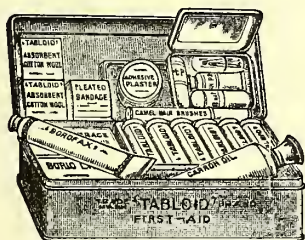
Measurements:  $7\frac{1}{2} \times 4\frac{1}{2} \times 2$  in.

In Rex Red, Royal Blue or Brewster Green Enamelled Metal, or in Aluminised or Black Japanned Metal

Retail  
**10/6**

TRADE  
MARK  
**'TABLOID'**  
BRAND  
**FIRST-AID**

Automobilists Aeronauts  
Sportsmen Travellers  
Yachtsmen and others



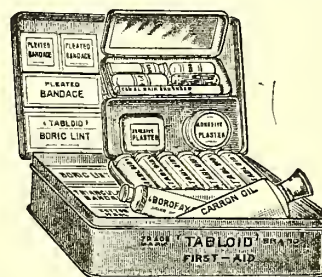
No. 707 'Tabloid' First-Aid  
(Registered)

Contains *six* tubes of 'Tabloid' and 'Soloid' Brand products, 'Borofax,' Carron Oil, 'Tabloid' Bandages and Dressings, pins, etc., etc.

Measurements:  $6\frac{1}{2} \times 3\frac{1}{2} \times 2$  in.

In Rex Red, Royal Blue or Brewster Green Enamelled Metal, or in Aluminised Metal

Retail  
**7/6**



No. 712 'Tabloid' First-Aid  
(Registered)

Contains *six* tubes of 'Tabloid' and 'Soloid' Brand products, 'Borofax,' Carron Oil, 'Tabloid' Bandages and Dressings, pins, etc., etc.

Measurements:  $6\frac{1}{2} \times 3\frac{1}{2} \times 2$  in.

In Rex Red, Royal Blue or Brewster Green Enamelled Metal, or in Aluminised Metal

Retail  
**10/-**

There is an increasing demand for these equipments. They are models of completeness and portability and are as attractive as they are useful.

BURROUGHS WELLCOME & CO., LONDON (ENG.)

NEW YORK MONTREAL SYDNEY CAPE TOWN SHANGHAI



Warrick

'FLEXOIDS'

Brothers.

ENORMOUS SALES.

STANDARD TABLET & PILL CO.  
HOVE.BULGARIAN HEALTH  
CHOCOLATE CREAMSCONTAINING A HIGHLY CONCENTRATED  
CULTURE OF THE BACILLUS OF MASSOL.MINIMUM RETAIL  
PRICE

1/9

PER BOX

SHOWCARDS FREE.

SHOWCARD NO. 1.

We stock

BULGARIAN HEALTH  
CHOCOLATE CREAMS

Which contain in a concentrated form the Bulgarian Sour Milk Bacillus.

The Bacillus of Long Life and Good Health.

PRICE 1/9 PER BOX.

TRADE MARK.  
THE "ANKH."The ancient Egyptian  
Amulet, B.C. 4000.The Symbol of  
LONG LIFE.OWN NAME ON ONE  
DOZEN

Price

15/- per dozen

Carriage Paid.

SHOWCARDS FREE.

SHOWCARD NO. 2.

BULGARIAN HEALTH  
CHOCOLATE CREAMS

Contain in the form of a very pleasant Chocolate Cream all the essentials of the Sour Milk treatment. Each chocolate is equivalent in effect to a tumblerful of Bulgarian Sour Milk.





**A Weekly Journal of the Chemical and Drug Trades**  
and of  
**British Pharmacists throughout the Empire.**  
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by seventeen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

#### Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 6d.; Summer or Winter Number, 1s.; *Diary*, 8s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12/60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Notizkalender einmal im Jahre, 10 Mark, postfrei.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año, 12/60 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

**Head Office: 42 CANNON STREET, LONDON, E.C.**

Telegrams: "Chemicus London." Telephone 852 Bank (two lines).

**Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.**

#### CONTENTS: Vol. LXXVI., No. 3 (Series No. 1564).

	PAGE		PAGE
Agri - Horticultural		New Companies and Com-	
Licences .....	78	pany News .....	72
Australasian News .....	69	Observations and Reflec-	
Bankruptcy Reports .....	71	tions .....	79
Births .....	72	Organic Arsenic Com-	
Book, New .....	83	pounds .....	84
Business Changes .....	73	Parliamentary Matters ...	75
Chemists' Windows .....	78	Personalities .....	73
College Notes .....	88	Pharmaceutical Society of	
Colonial and Foreign		Cape Colony .....	70
News .....	70	Pharmaceutical Society of	
Coming Events ... <i>Col. Supp.</i>		Ireland .....	77
Commercial Notes .....	93	Practical Notes and For-	
Correspondence:		mulae .....	85
Letters .....	94	Retrospect .....	96
Legal Queries .....	95	Scientific Progress .....	76
Miscellaneous Inquiries	95	Scots News .....	68
Deaths .....	72	South African News .....	69
Editorial Comments:		Trade-marks Applied for	
British Trade in 1909 ...	30	Trade Notes .....	74
Notes .....	83	Trade Report .....	89
English News .....	66	Wills, Recent .....	73
Festivities .....	87	Winter Session of Che-	
French News .....	68	mists' Associations:	
Gazette .....	71	Keighley; Dundee As-	
Information Department	78	sistants; Great Yar-	
Irish News .....	67	mouth; Women;	
Legal Reports .....	71	Halifax; Dewsbury;	
Marriages .....	72	Bradford; Assistants'	
Minor Examinations .....	88	Union; Chemist-Op-	
Minor Experiences .....	88	tics; Manchester	
		Optical .....	86

#### THE PALPITATING ISSUE

before those engaged in pharmacy, chemical industry, and the drug trade at the moment is non-political. It is a question of more business and how to secure it. By general consent of all parties, it is agreed that the surest medium for obtaining a continuance and increase of good times

#### IS THE WINTER ISSUE

of "The Chemist and Druggist." It will be published on January 29, 1910, and Insets are to be a feature. The advantages of Inset-advertising in that issue are

- (1) The Insets are part of the Issue.
- (2) They are not destroyed after being looked at.
- (3) Every reader is a buyer.
- (4) Insets are much less expensive than circular postage.

On receipt of a postcard addressed to him at 42 Cannon Street, London, E.C., The Publisher will send you many further particulars.

## Summary of this Issue.

The more notable items only are dealt with.

#### Articles and Communications.

An interesting photograph of the late Mr. Octavius Corder is reproduced on p. 73.

A model hospital ward in a subscriber's shop-window proved an attractive and paying "show." He tells how he did it on p. 78.

Poison-bottles of distinctive shape and colour are wanted, says the "Daily Mail," which has obtained representative opinions on the subject (p. 83).

Dr. W. Harrison Martindale communicates further observations on organic arsenic compounds, including recent observations by Colonel Lambkin (p. 84).

A Minor man who has been examined in Edinburgh and London compares the examinations by the two Boards. He is deliciously sarcastic about Edinburgh (p. 88).

"British Trade in 1909" deals with the exports and imports of Great Britain and Ireland as officially published. We have compiled a series of tables, which show the most striking features of last year's business, prominence being given to chemicals and medicines (p. 82).

Mr. Mowbray Upton, Clerk to the Society of Apothecaries, points out that the President of the Pharmaceutical Society was wrong in saying that he disclaimed the use of the words attributed to him in the published reports of the meeting of the Apothecaries' Assistants' Association. Mr. Upton says the report in the *C. & D.* was correct, and the Master of the Society of Apothecaries sent a reprint of this to the President of the Pharmaceutical Society to show him what Mr. Upton actually said, but this was not mentioned at the Pharmaceutical Council meeting. Mr. Upton writes to us on the matter (p. 94).

#### The Week's News.

Only three poisoning cases are recorded this week (p. 66).

The O.R.C. Poison Schedule has been modified in an important particular—cocaine preparations (p. 69).

Mr. Balfour does not promise to alter the spirit-duty if his party gets into power. See the note on p. 75.

A Cardiff woman has obtained damages from Mr. T. Malins for alleged negligence in extracting her teeth (p. 71).

Cape Colony chemists have after a stiff debate decided to help the Government with the stamped-medicine trouble (p. 70).

Mr. Glyn-Jones is very busy at Stepney. He wants motor-cars and other vehicles for his polling day—January 18 (p. 75).

The 1906 Parliament has been dissolved and another called for. We have quite a budget of pharmaceutico-political paragraphs in consequence (p. 75).

The winter session of chemists' associations has resumed after the short Christmas vacation, and about a dozen meetings are reported on pp. 85-87.

The names of those who have passed the Minor examination this month are printed on p. 88. The Irish Pharmaceutical Preliminary examination results are on p. 77.

The business done by the Pharmaceutical Council in Dublin last week was routine in character. Non-recognition of the Apothecaries' Hall Preliminary examination was an outstanding item (p. 77).

#### Trade and Market Matters.

The leading incidents in the Java cinchona and quinine situation during the past few years have been summarised in a circular issued by the Preanger Kina Bond. We give a useful *résumé* of the principal points on p. 93.

Business shows a satisfactory development, with few important features. Pyrogallol acid, quicksilver (seconds), and shellac are lower. Turpentine has had a sharp advance. Citric acid, copper sulphate, lemon and bergamot oils are all firmer. At the first drug-auctions of the year very large supplies were offered (p. 89).

The business condition fifty years ago is the subject of this week's quotation from the *C. & D.* of January 1860. The Congress referred to was in Paris, Mr. Cobden being the British representative, and the "coming change" was Mr. Gladstone's removal of import duties on 400 to 500 articles. A general election was also pending (p. 96).



## English and Welsh News.

When sending Newspapers containing Trade news to the Editor please mark the items.

### Brevities.

Ealing Education Committee has placed an order with Mr. Jones, optician, West Ealing, for the supply of spectacles to needy schoolchildren on the requisition of a qualified medical practitioner.

Messrs. W. H. Bagnall & Co. have, owing to expiry of lease, sold by auction their stock at 18 New Street, Lancaster. This firm was established in 1783, and has latterly been under the management of Mr. Jackson.

A burglary was committed at the shop of Mr. J. Wheeler, chemist, 141 High Street, Walthamstow, on January 8. Mr. Wheeler had a struggle with the burglar, but did not succeed in detaining him. Some jewellery was stolen.

A fire broke out in a stock-room on the premises of Mr. F. A. Willcock, chemist and druggist, Victoria Street, Wolverhampton, on January 7. By means of two chemical fire-extinguishers some neighbouring tradesmen prevented the flames attaining serious proportions, and the fire-brigade on arrival found their task an easy one.

Sir William Treloar is raising a fund on behalf of Mr. H. W. Cox, a London victim to *x-ray* injury. Mr. Cox will be remembered as one of the pioneers in the manufacture of radiographic apparatus, several improved forms of the apparatus having been devised by him. He is now terribly crippled as the result of *x-ray* dermatitis.

The States of Jersey on January 12 adopted Bills imposing an additional tax of 4*d.* per lb. on leaf tobacco without stalk, 6*d.* per lb. on cigars, and 10*d.* per lb. on cigarettes; also an additional tax of 4½*d.* per half-gallon on wines, with 6*d.* additional half-gallon on bottled wines, 3*s.* 6*d.* half-gallon on spirits of 50 degrees strength and above, 1*s.* 9*d.* per half-gallon on spirits below 40 degrees. It is estimated this will provide 9,000*l.*

A girl of eleven died in Guy's Hospital on Sunday from blood-poisoning following chilblains, but the evidence at the inquest showed that she had a twisted ankle, and had been operated on at the hospital on Christmas Day. A medical witness stated that she had inflammation of a bone in the foot set up by microbes, and serum was injected to make the resistance stronger. [This scarcely justifies the newspaper title "Death from chilblains."—Ed. C. & D.]

Three fatalities with poisons have been recorded during the week.—A governess named Violet E. Cole (24) of King's Langley, Herts, committed suicide in Euston Station by taking *oxalic acid*. Deceased had been under the erroneous impression that she suffered from heart disease.—"Felo de se" was the verdict returned at the inquest upon the body of Albert Merrick, carpenter, Glastonbury, who poisoned himself by taking *potassium bichromate*.—At Scarborough on January 12, Lucy Agnes Foster, wife of Mr. F. Foster, retired homœopathic chemist, died from *strychnine* poisoning.

The case of Thermos, Ltd., v. the British Caloris Co., was in the list for hearing in the Court of Appeal, composed of the Master of the Rolls and Lords Justices Moulton and Buckley, on January 11, upon the plaintiffs' appeal from an order of Mr. Justice Joyce upon their application for further and better particulars of the defence. When the case was called on, Mr. Hugh Moulton stated that the appeal had been put into the list by mistake, as the whole action had been disposed of and settled. The Master of the Rolls directed that the case should be struck out.

The Holborn Borough Surveyor has informed the General Purposes Committee of the Borough Council that an inspection of the sewers in Hatton Garden and Eagle Street showed recently the presence of chemicals therein, discharged from the premises of certain local manufacturing firms. The firms in question have promised to prevent a recurrence of the offence. There was no evidence of any damage having been done to the sewers, but it was mentioned that on a previous occasion the Hatton Garden sewer was very seriously injured by the discharge of chemicals into it.

### Liverpool Notes.

The cash drug-stores formerly carried on by Mr. Leggett, at 35 Boaler Street, are now conducted by Mr. P. H. Lloyd.

Mr. Harold Lomax, pharmacist, has taken over the Jubilee Pharmacy, 43 Edge Lane, Liverpool, until recently carried on by Mr. L. E. Thomas.

Mr. Gerald Lenton has resigned his share in the secretarial work of the Liverpool Chemists' Association. Mr. A. Steen Barr has now been appointed Secretary, jointly with Mr. Humpheys Jones.

In conversation with a well-known advocate of a rebate on spirit used for medicinal purposes, one of the local parliamentary candidates remarked that the Pharmaceutical Society is about the only organised body from which he had received no communication in view of the election.

The new quarters of the Liverpool East Dispensary at Richmond Row will be formally opened by the Earl of Derby on Tuesday next. The work has been carried on in a dwelling-house since 1848, and the rebuilding has cost 3,500*l.*, of which nearly 1,000*l.* remains to be raised.

Appreciative references to the late Canon Tyrer were made in many churches last Sunday, also in the local Press. The Canon was highly respected and a hard worker—in fact, his friends believe that he worked too hard. His brother, Mr. Thomas Tyrer, F.I.C., F.C.S., was the principal mourner at the funeral.

### Manchester Notes.

Influenza is said to be rampant in several districts in and around Manchester, and to be of a particularly virulent type.

A large number of pharmacists and their friends are expected at the Manchester Pharmaceutical Association's whist-drive next Wednesday.

Mr. J. W. Walton, of Higher Broughton, and Mr. Harrington, of Ashton New Road, state that they will announce the results of the General Election day by day.

### Sheffield Notes.

At the Police Court on January 11, Sidney Jardine and Joseph Oakley, porters, were sent to gaol for twenty-eight and fourteen days respectively for stealing two bottles of Bovril, the property of the Midland Railway Co.

The third annual dinner of the recreation club run in connection with the Sheffield branch of Messrs. Boots, Ltd., was, according to the local Press, an "unqualified success." The President (Mr. T. W. Hodges) in his opening address referred to the increasing vitality of the club. The Rev. Father Hayes submitted the toast of "The Firm" (Sir Jesse and Lady Boot). An entertaining concert programme was provided during the evening.

The Local Government Board held an inquiry at Sheffield on January 7 into the application of the City Council for a Provisional Order providing for the continuance of the notification of tuberculosis of the lung for a further period of ten years. It was shown that phthisis in the city had decreased from 2.02 in 1900 to 1.46 in 1909. The Bacteriological Department of the University examines samples of sputum obtained from patients by local medical practitioners, the Council paying for examination at the rate of 2*s.* 6*d.* per sample. The estimated cost in notification, examination of sputum, upkeep of hospitals, etc., for the year ending March next is 4,119*l.* Certain administrative expenses and disinfectants are not included in this sum.

### Contracts.

Grantham Town Council.—Mr. B. G. Skipworth, Grantham, drugs for six months.

Wellingborough Urban Council.—Simco & Co., Wellingborough, appointed chemists for three months.

Macclesfield Guardians.—Mr. T. H. Duncalf, chemist and druggist, Macclesfield, for the drug-supply.

Camberwell Guardians.—P. B. Cow & Co., for three water-beds at 4*s.* 4*d.* per lb. plus 10 per cent. Approximate cost, 2*l.* 11*s.* each.



Gloucester City Council.—Mr. H. R. Broad, Bristol Road, Gloucester, and Mr. D. Walwin, Southgate Street, Gloucester, disinfectants for the hospital for a year.

Hull Corporation.—The Asylum Committee have accepted the tender of Messrs. Metcalfe & Son, chemists, Hull, for the supply of drugs during the ensuing six months.

#### Grocers Complain of Competition by Chemists.

At the meeting of the Mid-Rhondda Grocers' Association at Tonypandy on January 4, Mr. Meredith called attention to the increasing number of grocery articles being retailed by chemists. In a certain pharmacy, jams, pickles, and other commodities, "which did not in any conceivable way come within the scope of chemistry," were displayed for sale. A suggestion was made that grocers should retaliate by taking out patent-medicine licences, and thus obtain "better profits" than on some of the articles grocers handled. Exception was also taken to chemists taking up agencies for tea. The Chairman (Mr. T. R. Davies) alluded to the recent restrictions placed upon the sale of agricultural poisons, and stated that retail grocers should also look after their own interests. A member pointed out that chemists might equally object to the sale of products such as meat extracts. Eventually the matter was deferred until the next meeting, when steps will be taken with a view to "counteracting this unfair form of competition."

#### Inquests.

At the Westminster Coroner's Court on January 10, the jury found that the death of James McAllister, Drury Lane, London, W.C., was due to heart failure. A news-vendor stated that deceased had been his fellow-lodger for a year, and that McAllister was formerly in business as a chemist in Clerkenwell, but had come down in the world through intemperance. Deceased had recently earned money by addressing circulars, and he also received remittances from his wife, who is a doctor practising in the South of France.

At the City Coroner's Court on January 11, an inquiry was held regarding the death of George Felstead, aged six months, who died from septic poisoning. A verdict of death from natural causes was returned. Dr. Horner stated that there was no external injury, and that the "germ" was introduced possibly by a "comforter," the use of which he condemned. The Coroner added that he had seen women drop the "comforters" in the dirty road, pick them up, and replace them in their children's mouths. He also remarked upon the danger of infection in the india-rubber tube of "lazy-nurse" feeding-bottles.

At Clapham Mr. G. P. Wyatt conducted an inquiry into the death of Henry Baldry (52), school-keeper, Balham. Dr. E. H. Drew stated that the cause of death was syncope from angina pectoris, "brought on by indigestion which might be aggravated" by acid fumes. The deceased had been showing a workman how to use spirit of salt to roughen a slippery granite floor. Walter Blabey, labourer, said he used about a quart of the acid at a time. Deceased remained looking for over an hour. Witness wore a respirator, but the fumes made his head ache. The jury stated that there had been negligence on the part of the school authorities.

#### Police-court Charges.

At Feltham, Surrey, on January 3, Robert Chalmers Tenniswood, of Tooting, was fined 40s., with costs, and bound over for six months, for assaulting Mr. Arthur Oldcorn, chemist and druggist, Broadlands Road, Shepperton, on December 27. Mr. Oldcorn stated that defendant, who is his brother-in-law, felt aggrieved at his late father having left the bulk of his property to his sister, Mrs. Oldcorn.

At Stratford Police Court on January 10, Rose Gayford, who appeared on remand (*C. & D.*, January 8, p. 36), and Henry Bisping, described as a chemist, both of 59 Boundary Road, East Ham, were charged with conspiring to obtain goods and money by means of worthless cheques. Several victimised traders, including chemists, gave evidence similar to the depositions of Mr. Raynor last week, the amounts on the cheques ranging from 1l. 5s. to 6l. 10s.—Mr. George F. H. Bartlett, chemist and druggist, deposed

that Gayford entered his pharmacy at 38 Battersea Park Road, S.W., on November 18 and obtained goods to the value of 11s., tendering in payment a cheque for 3l. 8s. 6d. At the time he believed the cheque to be a good one. Bisping was formerly employed at the shop as manager. Gayford gave her name and address as Mrs. Grace Brett, 14 Chelsea Gardens.—Mr. Caleb H. J. Yewen, chemist and druggist, 108 Crownfield Road, Stratford, E., said that Gayford ordered goods worth 19s. 10½d., and that he gave her 18s. 1½d. in cash as the balance due on the cheque. He offered to send the goods, but she said, "I have a friend outside." She then called in the prisoner Bisping, who put the small articles into his pocket, leaving some syphons of soda-water to be sent to 104 Grove Green Road, Leyton. Witness picked out Gayford at the police-station from among nine other women.—Mr. J. J. Ferguson, pharmacist, 453 Romford Road, Forest Gate, E., stated that he supplied goods to the value of 7s. 2½d. on Gayford tendering a cheque for 2l. 2s. endorsed Edith Smart.—Mr. Hankinson, chemist, 6 Kingston Parade, Ilford, said Gayford purchased from him goods worth 6s. 3d., and obtained 13s. 9d. in cash. She ordered two syphons to be sent to a fictitious address.—A clerk at the Brentford branch of the London County and Westminster Bank said Gayford's account at the bank was closed on January 8, 1909. Of a book of twenty-five blank cheques fifteen had been dishonoured.—A clerk of the Felixstowe branch of the Capital and Counties Bank said that eighteen cheques had been dishonoured.—The prisoners reserved their defence.—The Bench committed both for trial on a general charge of conspiracy, for obtaining goods and money by false pretences, and with forging seven cheques.

## Irish News.

When sending Newspapers containing Trade news to the Editor please mark the items.

#### Brevities.

Mr. C. B. Vance, pharmaceutical chemist, the Burnaby Pharmacy, Greystones, sends out an easel-form calendar with monthly tear-offs. Apart from its unusual form, there is on the left-hand side a small thermometer which ensures the gift being appreciated. Mr. Vance also sends us a selection of other advertising matter which he uses, this including a time-table of local trains.

Mr. Michael Dempsey, pharmaceutical chemist, Newbridge, co. Kildare, was last week entertained by the local Commercial Club at a smoking concert and presented with a gold watch and chain on the occasion of his departure for Croom, co. Limerick, where he has opened a Medical Hall. Mr. Dempsey was last year Chairman of the Newbridge Town Commissioners.

#### Municipal Election Candidates.

Members of the trade are to the fore in connection with the forthcoming Urban and Borough Council elections. At Newcastle, co. Down, Mr. R. Hastings, J.P., pharmaceutical chemist, was re-nominated for the Urban Council, of which he is Chairman, but he will have to fight for his seat. At Coleraine, co. Londonderry, Mr. R. F. McCartney, pharmaceutical chemist, The Diamond, is also being opposed; while in Belfast Mr. Saml. Hill, druggist, 27 Belmont Road, has come forward as a candidate in Windsor Ward. Mr. James Allen, pharmaceutical chemist, Bow Street, Lisburn, is a candidate for the local Urban Council. Mr. William McCarthy, pharmaceutical chemist, Clontarf, has been nominated for re-election as a member of the Dublin Corporation. Mr. P. J. English, pharmaceutical chemist, Earl Street, Mullingar, and Mr. John Beatty, druggist, Clones, have been nominated to the Urban District Council of their respective towns. Mr. P. N. White, J.P., pharmaceutical chemist, Sligo, and member of the Council of the Pharmaceutical Society of Ireland, has been returned unopposed to represent the East Ward on the Sligo Town Council.

#### In the Courts.

In the Northern Division of the Dublin Police Court last week, Patrick Mohan, a labourer, was charged with having stolen from the front of Mr. Hyacinth Darcy's Medical



Hall, 6 Berkley Road, Mr. Darcy's pony and van, the latter containing a considerable quantity of drugs and chemicals. Mr. Darcy stated that he saw the prisoner sitting in the van a couple of hundred yards off and driving away, and that he pursued and stopped him. The prisoner was remanded in custody.

Michael Rochfort, a vanman employed by Messrs. Bewley & Draper, Ltd., Mary Street, Dublin, sued the company in the Dublin Court of Conscience on January 8 for 11. 7s. 9d. for work done, and 18s. wages in lieu of a week's notice. Rochfort was summarily dismissed for not attending to his duties on Tuesday and Wednesday after Christmas. This was due, he said, to the illness of his wife's sister. He had been told some time ago that if he failed to attend to his duties he would be dismissed. A decree for 9s. was given.

Christopher Mooney, drysalter, Capel Street, Dublin, was summoned under the Merchandise-marks Act, at the Dublin Police Court, on January 8, for selling a tin of carriage-varnish, to which a false trade description was applied. A tin of varnish was bought at defendant's premises labelled "Pale Copal Carriage-varnish. Mander Bros., varnish and colour makers, Wolverhampton," and Dr. H. M. Smythe, Messrs. Mander's chemist, gave evidence that the contents were inferior to the genuine varnish. Mander's varnish was sold at 18s. a gallon, and that sold by the defendant was only worth 8s. For the defence it was stated that a tin must accidentally have been filled with other varnish and by mistake placed in the window by defendant's young son. The Magistrate dismissed the case, saying he was not prepared to hold that the child who made the sale was responsible.

## Scots News.

When sending Newspapers containing Trade news to the Editor please mark the items.

### Brevities.

The School of Pharmacy, Robert Gordon's College, Aberdeen, scored a pass of 75 per cent. at the recent Minor examination, and all first attempts.

Fifteen shops, mostly chemists', have been broken into recently, in Dundee, and three young lads were on January 8 sentenced by the Sheriff to terms of imprisonment for the thefts committed.

At a meeting of the Aberdeen Public Library Committee held last week it was reported that among the additions to the lending department is a remarkable volume, "Secret Remedies: what they Cost and what they Contain." The local Pharmaceutical Association at its last meeting resolved "to approach the Public Library authorities with a view to getting them to accept two or more copies of this work to place on the tables of the reading-room."

### Edinburgh.

A local chemist, who is having a seven days' sale, advertises among other lines eau de Cologne at the "reduced price of 15s. 6d. per dozen."

The manager of a large city shop reports that perfumes have not sold so well this season, and this is not astonishing when one contemplates some of the drapers' windows, quantity being the predominating factor. In several instances bottles holding about 2 oz. are displayed in wooden boxes, which are designed for use as banks when their fragrant enclosure has disappeared; price complete, 6½d.

Seidlitz-powders always sell quickly at this time, and those which are flavoured are becoming increasingly popular. Long ago there was a chemist in a Scots town who flavoured the acid portion with lemon. A bibulous individual purchased one; returning the following day he demanded a dozen. "The best pick-me-up A've ever seen," he explained. The chemist noticed after his customer had gone that little aroma lingered in the remaining powders, and a closer investigation proved it was quite lacking. The discovery was made that the assistant had introduced tr. strophanthi, B.P. 1885, and, though the worthy who unwittingly caused the error to be observed pleaded for some more, the experiment was never repeated.

### Glasgow and the West.

Mr. J. J. Buckley, 111 Coplaw Street, Glasgow, is now representing Messrs. Clayton & Jowett, Ltd., Liverpool, in Scotland and the North of Ireland.

Mr. Reid, pharmacist, has been appointed manager of the Raeberry Street branch business of Mr. J. Abbott, chemist and optician, New City Road, Glasgow.

Mr. E. J. Munro, chemist and druggist, has acquired the "Maryhill Drug Stores," Main Street, Maryhill, and has disposed of his business at Gairbraid Street, Maryhill.

Mr. Andrew Wood, Ph.C., has been appointed manager of the wholesale and retail drug departments of Messrs. Rankin & Borland, Kilmarnock. Mr. Wood has been many years with the firm.

Dunbar & Co., chemists, 119 Gloucester Street, Glasgow, have granted a trust deed on behalf of their creditors in favour of Mr. Alexander Christie, accountant, 82 West Nile Street, Glasgow. Messrs. Bird, Son & Semple, writers, 71A West Nile Street, are agents.

Messrs. Christie Brothers, manufacturers and importers of druggists' sundries, 138 Howard Street Glasgow, inform us that it was their warehouse which was damaged with water when Messrs. Cockburn & Co.'s fire-sprinkler burst. Messrs. Christie Brothers have never had a Mr. James Christie in the firm.

The late Mr. Robert Lamont, F.I.C., of Kilmarnock, whose sudden death was reported in the *C. & D.* last week, inherited a drysaltery business founded by his father, Mr. Alexander Lamont, in Market Lane, Kilmarnock, in 1844. His father and mother were Quakers. Mr. Lamont was a clever chemist and an ingenious inventor, but was averse to patenting any of his processes. He at one time privately taught chemistry to a number of young men in his own laboratory and at his own cost, and a number of his pupils went forward to the Science and Art examinations and passed in the advanced stage of chemistry. Mr. Lamont became a Fellow of the Institute of Chemistry in 1888, and quite recently he gave a donation of over 200l. to the Building Fund of the Institute. He was a bachelor and a wealthy man. It is understood that he has bequeathed legacies to the employés of Utilitarian, Ltd., besides 500l. to his housekeeper.

## French News.

(From the "C. & D." Correspondent.)

PHARMACEUTICAL "ANNEXATION."—Two employés of a Paris wholesale druggist's warehouse figured in the police court a few days ago, on the charge of stealing pharmaceutical goods from their employer, which they afterwards sold for what they would fetch. Four of their accomplices are also to be prosecuted, as well as a pharmacy student named Hifuegel.

THE PARIS MUNICIPAL LABORATORY.—The chemists of the Paris Municipal Laboratory are looking forward to improved accommodation being given them in connection with a scheme for reorganising the various services of the Paris Prefecture of Police, to which the Laboratory belongs. Hitherto the chemists have worked under very disadvantageous conditions, and consequently they anticipate the change with satisfaction.

THE GALEN CLUB.—This association of English chemists' assistants in Paris celebrated the New Year on January 5, when they met at headquarters, 85 Rue Richelieu, to discuss, with much spirit, roast turkey, preceded by soup and *boeuf à l'Anglais*, and followed by salad, soufflé pudding, coffee, etc. Mr. J. W. Kelsey (the President) was in the chair, and was supported by Mr. Collier (Messrs. Parke, Davis & Co.), and that generous supporter of the Club, Mr. Scott. Mr. Macdonald (the Honorary Treasurer), was most energetic in his efforts to make the evening a success. After the Chairman had proposed the Royal toast, Mr. Le Bosquet was called upon to propose the good health of the Galen Club. After this a smoking concert was held, among those who assisted being Messrs. Urquhart, Jones, Riley, and Kelsey. Other members present were Dr. Seinal, and Messrs. Balch (Secretary), Barker, Cornock, Coto, Griffin, Koch, Lewis, Nevard, Shrive, and Young.



**THE SCIENCE OF PARASITOLOGY.**—On Saturday, January 8, Professor R. Blanchard inaugurated a series of lectures on parasitology at the Paris Faculty of Medicine. Among those present were Sir Rubert Boyce, F.R.S., Professor of Pathology at the Liverpool University. Professor Blanchard devoted this first lecture to giving a review of the progress in parasitology made in Great Britain, and especially by the Liverpool School of Tropical Medicine. He also recalled the fact that the formation of a similar institute in Paris seven years ago was mainly the result of visits to Great Britain by French scientists. Sir Rubert Boyce returned thanks to Professor Blanchard for his appreciative remarks concerning the visits of himself and colleagues across the Channel, and dwelt on the gratitude that was due to him for having inaugurated and organised the teaching of parasitology in France. Professor Landouzy also spoke in appreciative terms, and recalled the fact that Sir Dyce Duckworth gave a discourse in Paris last year.

**CHANGES IN PHARMACIES.**—The well-known and historical pharmacy of J. B. Caventou, one of the discoverers of sulphate of quinine, in the rue Gaillon, Paris, has changed hands, owing to the recent death of M. E. Sonnerat, who was its proprietor for many years. The new owner is M. Ed. Legrand, Pharmacien de 1<sup>re</sup> Classe, who proposes to maintain the reputation of this interesting *officine* for high-class pharmacy and chemical analyses. The firm of Warings have removed their Paris branch to 62 Avenue des Champs Elysées, which is also the address of Dr. W. Douglas Hogg's pharmacy, and the result is that rumours have been prevalent in Paris that the enterprising furniture firm have bought up the lease of the popular pharmacy for a more or less extravagant indemnity. But apparently nothing has been done so far, whatever may be the ultimate decision. In any case, the result could only be that Dr. Hogg would secure premises in the same avenue, as it is evident that a pharmacy of such high standing as his could not be allowed to disappear. In fact, if one did not exist in the Avenue des Champs Elysées, now would certainly be the moment to open one, for Paris continues to move west, and this fine thoroughfare is the great artery between the centre of the City and the residential district of Passy, etc., not to speak of the palatial hotels that have sprung up near the Arc de Triomphe during the last few years.

**A TREATMENT FOR CHILBLAINS.**—At the meeting of the Paris Academy of Medicine last week a paper was read from Dr. J. Jacquet (of the Saint Antoine Hospital) and Dr. P. Jourdanet, on a method for the treatment of chilblains. There is a tendency to regard chilblains and their treatment with a certain amount of levity, but sufferers from this trying affliction are invariably grateful for any alleviation of their sufferings. According to the physicians in question, chilblains are the "result of multiple irritations entering into conflict at the extremities." On the one hand, cold, or rather the sudden changes of warmth and cold frequently repeated, and, on the other hand, a series of organic irritations, both varied and variable, emanating from the rhino-pharynx, the gingivo-dentary respiratory and digestive organs, etc. By the repeated conflicts of these two categories of "cosmic" and "organic" agents the skin is affected by numerous and converging irritations which lead to chilblains in a more or less malignant form. The method of treatment recommended consists of "gymnastic elevation of the extremities." The decongesting influence of elevation is known, as, for instance, raising the arms to obtain white hands. The effect is increased by using (*i.e.*, wriggling) the fingers. The course for a cure is as follows: Not less than once an hour if possible; the patient being suitably seated, on the edge of a bed for instance, raises the arms during several minutes, at the same time giving rapid exercise to the hands and especially the fingers. For the feet, the patient, being either lying down or seated, should place them at a forced elevation and exercise them as far as possible in the same way as the hands. When the chilblains are not broken massage is also recommended. Of course, a great factor is to avoid letting the extremities get cold, and a suitable ointment to alleviate irritation can also be used.

## Australasian News.

"The Chemist and Druggist" is regularly supplied by order to all the members of eight Societies of Chemists in Australia and New Zealand.

### The Commonwealth.

**RECIPROCITY.**—"The Chemist and Druggist of Australasia," referring to the question of reciprocity of pharmaceutical diplomas between Great Britain and Australia, urges that—

"Australasian pharmacists must not be too vexed if, in the multiplicity of important duties which the Council of the Pharmaceutical Society of Great Britain has to transact, regulations are not provided at once to meet the case of the very small number of pharmacists who would be likely to apply for registration in the United Kingdom. At the same time, the Council of the Pharmaceutical Society of Great Britain, if the members had travelled, would have realised how strong the feeling of sentiment becomes and how easy it would have been to word the letter to Australia so as to show that no unavoidable delay would take place in bringing in regulations and in making the necessary inquiries. If even the letter had only contained a request for all available information to allow of the question to be decided, and for suggestions as to the character of the regulations that should be enacted, the attitude of the British Society to its Australian relatives would have looked quite different."

### New South Wales.

**EXPLOSION IN A PHARMACY.**—The explosion in the East Sydney pharmacy, which caused the death of one of the assistants (see *C. & D.*, December 4, 1909, p. 847), is now known to have been caused by the vapour of benzene and turpentine coming in contact with a flame. It was stated at the inquest that within a few feet of the gas-ring there were one or two gallons of benzene, a gallon and a half of methylated spirit, and half a gallon of turpentine, while in the cellar there was a further quantity of spirit of benzene. Camphorated oil was being prepared by heat when the oil became overheated and took fire. In endeavouring to extinguish the flame the evaporating-basin in which the oil was contained was upset, and this seems to have ignited inflammable vapour in the neighbourhood.

### New Zealand.

**SALE OF SPIRITS.**—The New Zealand Licensing Act Amendment Bill contains the following clause:

"Nothing in the said Act or this Act shall prevent any duly registered pharmaceutical chemist from dispensing alcoholic liquor in medicinal quantities for medicinal purposes upon a certificate signed by a duly registered medical practitioner that such liquor is required for such purposes." Everything, of course, turns upon the meaning of "medicinal quantities for medicinal purposes."

## South African News.

(From the "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in business in British South Africa.

### Orange River Colony.

**POISONS SCHEDULE.**—The O.R.C. Parliament last Session passed an Act to amend verbal errors in Bills passed, which amended the poisons schedule as regards preparations of cocaine appearing in Part II. of the schedule by the deletion of the word "not" in

Cocaine, preparations of, of not more than 3 per cent.

It now reads, as originally intended, that preparations of cocaine come under Division II. if over 3 per cent. of cocaine be present; if less, the preparation is not a legal poison.

**RECTIFYING THE CHEMISTS' REGISTER.**—At the last meeting of the Medical and Pharmacy Council, the Registrar intimated his intention of striking off the register the following names of chemists, owing to no replies having



been received from them to his inquiries sent out for the purpose of rectifying the register, viz.:

Barton, William Gray	Poeklington, Frederick
Bradfield, Ernest Hugh S.	Richards, Henry
Currie, Alexander	Robertson, Alexander
Houlton, Joseph Lighton	Wicks, Harry Gilbert

Should any of these wish to remain on the register, they must communicate with the Secretary and Registrar at once.

### Pharmaceutical Society of Cape Colony.

A GENERAL MEETING was held at the Society's Rooms, Mercantile Buildings, Cape Town, on Thursday, December 16, 1909. Mr. W. Froembling presided. Messrs. F. C. Mathew and J. S. North (Vice-Presidents), D. K. Petersen, L. H. Walsh (Lennon, Ltd.), J. Patterson (Burrongs Wellcome & Co.), T. W. Tullett (Allen & Hanburys), A. J. Rivett, W. E. Crow, J. Sowden, W. Turnbull, G. E. Cleghorn, J. Austin Thomas, W. E. Sleggs, H. E. Cope, C. L. Tayler, C. Merry, C. Weller, J. Clayton Smith, and J. Dell (Secretary) were among others present.

#### STAMP-DUTIES.

The President read a letter which had been received from the Assistant Colonial Treasurer asking for a copy of the retail price-list recognised by the Cape Town chemists, also for a list of foods and nutritive substances which chemists considered should be exempt from the operation of the Stamps and Licences Act, and requesting that two members of the Society be sent to a meeting as representing chemists to discuss with the Government officials certain matters in connection with the Act. The President briefly referred to what had been done by a committee of the Society with regard to these regulations, and to the Premier's promises to try to meet the chemists' wishes in the framing of regulations, practically all of which, he pointed out, had been disregarded. He thought it would be useless to appoint delegates, as the law had been framed already and put in force contrary to the distinct assurance of the Premier. Judgment had been passed on the criminal, and as an act of grace he was to be allowed to choose the method of execution. (Laughter.) He suggested that individual members might take steps to communicate their private views to the Government. It was impracticable to appoint one or two delegates to convey the views of the entire Society in all particulars.

Mr. Crow moved:

1. "That the question of exemptions to the Medicine-stamp Act was fully dealt with by the committee of this Society in a letter to the Law Department in June last, and that the Society had no further observations to make on the subject."

2. "That a copy of the Cape Town Chemists' Price-list, amended to date, be forwarded to the Assistant Treasurer."

It was stated by Mr. G. E. Cleghorn that at a Council-meeting held a few days previously two resolutions had been passed in substantially the same terms.

After some discussion it was decided to confirm the decision of the Council. Mr. Crow then moved:

"That in view of the attitude of the Government to the suggestions made by this Society when the amendment of the Act of 1908 was under consideration, this Society is unable to accept the invitation of the Government to nominate two of its members to discuss in conference the new Act in any of its aspects."

Mr. Crow supported his resolution in a vigorous speech. He referred to the deputation to the Premier and the conferences the Society's committee had already held, and stated that when the Government produced its Bill the chemists found themselves utterly ignored, and their suggestions in many cases used against them. He hoped the Society would give the officials no assistance, and stated that personally his attitude to the Government was one of the stoutest hostility.

Mr. T. W. Tullett seconded Mr. Crow's motion.

Mr. Rivett said he considered that the Society would not be acting in the interests of the trade when they talked of ignoring the Government. Let them recognise the position. The Act had been passed, and the Government who had to administer it were at least entitled to be met in a spirit of fairness and compromise. (Hear, hear.)

Mr. F. C. Mathew agreed with Mr. Rivett that this was a matter which they should treat dispassionately. He regretted some of the remarks that had been made. They were dealing with the Executive of the country, and the best way to get their minor difficulties swept away would be to work with the Government.

Mr. L. H. Walsh thought it would be policy to send representatives from the Society. They could give assistance to the officials and learn the Government's intentions.

Mr. Rivett moved as an amendment to Mr. Crow's motion:

"That the Society be represented at the proposed conference by two delegates."

Mr. North seconded. Mr. Crow said that they would stultify the Society in the eyes of the trade and of the public if they accepted the amendment. There were many faults in the Bill, but the Government had forfeited any right they had to the assistance of the trade. It would all resolve itself into another "Tono Bungay" discussion. (Laughter.)

After further discussion, Mr. Rivett's amendment was put, and carried by fifteen votes to nine. Several members refrained from voting.

It was decided that Messrs. A. J. Rivett and J. Clayton Smith should be the Society's representatives at the conference.

Although the hour was late, an interesting and instructive lecture on "Microbes" was delivered by the President, and listened to with great attention by the members present. With a vote of thanks to the lecturer, the meeting closed.

## Colonial and Foreign News.

**BUENOS AIRES HYGIENIC EXHIBITION.**—The Executive Committee of the International American Congress of Medicine and Hygiene, to which reference was made in our Coloured Supplement of January 1, have now issued full particulars of the exhibition to be held in May. Among the fourteen sections, which are housed in separate buildings with connecting passages, are chemical and pharmaceutical products (including medicinal plants) and surgical instruments. Hygiene is divided into various departments, such as food, dress, buildings, sanitation, ventilation, and illumination, hospitals, etc. Infantile hygiene is treated under six sub-sections.

**CHEMICALS IN SOUTH RUSSIA.**—In Odessa there are one sulphuric-acid, one hydrochloric-acid, and one saltpetre-factory that work at a profit, and produce annually about 800,000 poods (12,903 tons) weight of goods. The producers formed an acid syndicate, which step they have found to be very much to their advantage. The representative house in the chemical industry of South Russia is the Société Anonyme des Produits Chimiques et Huileries d'Odessa, which undertakes the production of all mineral acids, some organic acids, salts and crystals, and the production of superphosphates, glue, gelatin, bone meal, oils, and varnishes. Pharmaceutical products, in spite of the enormous import-tariff, are obtained entirely from abroad. Generally speaking, the importation of chemicals was poor in 1908. Many inland centres once supplied from Odessa now deal direct with foreign makers.

**WEST INDIAN NOTES.**—Dr. H. L. Clare, surgeon-general of Trinidad, has returned to the island and resumed his duties.—A committee appointed by the Governor of Jamaica to investigate and take measures to remedy the conditions that give rise to malarial fever, proposes: To instruct by lectures and demonstrations suitable officers to recognise the larvæ of mosquitoes and their breeding-places, and to practise the most effective methods of destroying the larvæ. It is also proposed, after a keen-census of children has been taken at the different centres and the extent of malarial infection gauged, to commence the administration of quinine to school-children and others when found necessary.—Mr. W. Biffen, B.Sc., scientific assistant to the Imperial Department of Agriculture, Barbados, has been compelled to resign his position on account of ill-health. He has sailed for England.—Dr. W. D. Neish has been studying the treatment of leprosy at Jamaica, and has equipped a bacteriological laboratory at his own expense. He has used nastine (the fatty substance in the bacillus of leprosy) dissolved in sterile olive oil and injected subcutaneously, but with practically negative results. In fact, he states that the disease is no more retarded or arrested than would be demonstrated by any form of tonic treatment, and, in his opinion, nastine is not so effective as the treatment by mercurial injections or chaulmoogra oil.

**THE NEW SPELLING.**—An advertisement in an Edinburgh newspaper offered lodgings to "thesis patients" the other day.



## Legal Reports.

### Sale of Food and Drugs Acts.

#### HOUSEHOLD VINEGAR.

Before the Leigh (Lancashire) Bench on January 6, Robert Drury, grocer, Leigh, was summoned under Section 6 of the 1875 Act for selling as vinegar a liquid consisting of diluted acetic acid from wood, which had been coloured and flavoured to imitate vinegar. The solicitor for the defence contended that the vinegar was not sold as "malt vinegar," but as "vinegar" in the ordinary sense of the word. Dr. Sargent (medical officer of health to the Lancashire County Council) gave evidence in support of the case for the prosecution, and, after a long hearing, defendant was ordered to pay a fine of 2*l.* 19*s.* 3*d.*, including costs, the Bench holding that it was not ordinary household vinegar.

### County Court Cases.

#### DAMAGES FOR EXTRACTION OF TEETH.

At the Cardiff County Court on Thursday, before Acting-Judge Amphlett, a young widow, named Margaret Ann Barberett, brought an action against Mr. Templar Malins, carrying on business as an extractor and adapter of teeth, to recover 50*l.* damages for alleged negligence in extracting her teeth. Plaintiff, who is a charwoman, went to the defendant's premises in Queen Street, Cardiff, to have three of her teeth extracted. They were taken out by an assistant, and her gums afterwards bled so profusely that, according to the evidence of her father, when she returned home she was "almost blind and speechless and almost on the point of death." A doctor had to be sent for, and she was confined to her bed for three weeks.—Dr. Dillon said when he saw the plaintiff she was in a very prostrate condition. Her gums were very much lacerated, and in his opinion her teeth had been very negligently extracted.—The defence was a total denial of negligence. Mr. Malins said he had been an extractor of teeth for twenty-one years, and on an average 500 teeth were extracted at his Cardiff premises weekly. He had absolute faith in the skill and care of the assistant who extracted the plaintiff's teeth.—His Honour awarded the plaintiff 6*l.* for the doctor's bill and 5*l.* damages, together with costs.

#### A PACKER'S COMPENSATION.

In the City of London Court on January 11, the case of *Evans v. Burgoyne, Burbidges & Co.* was mentioned. The plaintiff, Edward C. Evans, packer, 117 Philip Lane, Tottenham, had sued the defendants for compensation under the Workmen's Compensation Act, he having met with an accident while working for them. The Court had ordered him to receive compensation of 13*s.* a week, and that had been paid for some time. Evans was injured by lifting a hamper. He lost his balance and fell back on to the top of a chest, striking his head. It was said that he is now totally incapacitated, but the employers contended that his present condition was not the result of the accident which he sustained on September 10, 1908, but of old age and neurasthenia, he being sixty-six years of age. The Royal Exchange Insurance Co. (with whom defendants were insured) now agreed to pay 135*l.* 4*s.* in settlement of Evans's claim for 13*s.* a week for life, and he was willing to take it. Judge Lumley Smith, K.C., asked Evans, who appeared much broken in health, whether he knew that the 135*l.* would only last for four years at 13*s.* a week, and that he might outlive the money. Evans said he thoroughly appreciated the position, and the Court made the order as asked.

## Bankruptcy Reports.

**Re William Hope Johnstone**, Station Road, Llanelly, Chemist and Druggist.—The public examination of this debtor was continued at the Carmarthen Bankruptcy Court last week before Registrar Parkinson, and was concluded. Previous hearings of the case were reported in the *C. & D.*, October 16, 1909, p. 601, and November 13, p. 742.

**Re Hector Gray** (late trading as Donald Gray & Sons), 36 and 37 Mincing Lane, E.C., Retired Produce Broker.—This bankrupt applied at the London Bankruptcy Court on January 13 for an order of discharge. Mr. G. W. Chapman, Official Receiver, reported that the failure occurred in June 1904; a sum of 208*l.* 5*s.* 7*d.* was realised in respect of the estate, and dividends amounting to 33*d.* in the pound were declared on proof amounting to 12,843*l.* 17*s.* The bankrupt had been in business since 1862, and he attributed his failure to losses by speculating for differences on his own account on the produce market, bad trade, and ill-health. The application was opposed both by the Official Receiver and Messrs. Bastow & Fuminger, chiefly on the ground that although the bankrupt was speculating on his own account, he led the brokers with whom he was dealing to believe that he was acting as broker only, and for another person. The offences reported were: (1) Insufficiency of assets to equal 10*s.* in the pound on the amount of the unsecured liabilities; (2) imperfect books of account; and (3) bringing on the bankruptcy by rash and hazardous speculation. After hearing Mr. Hansell in support of the application, Mr. Registrar Hope upheld the Official Receiver's report and imposed a further suspension of three years. Order entered accordingly.

**Re William Jopling**, West End Lane, N.W., Chemist and Druggist.—The first meeting of creditors under this failure was held last week at the London Bankruptcy Court before Mr. G. W. Chapman, Official Receiver. It appeared that the debtor purchased a chemist's business in West End Lane, N.W., in December 1908 for 680*l.*, paying a deposit of 25*l.* and a sum of 250*l.* on the stocktaking. After trading for a few days he discovered that the business had been very much over-estimated by the vendor, and, acting on the advice of his solicitor, he refused to complete the purchase. A writ was served upon him for the balance of the purchase price, but he successfully defended the action, which was dismissed, with costs, and subsequently he made an arrangement, under which he took over the business at the reduced price of 550*l.* The trading was not successful, and the debtor was further handicapped by the illness of his wife and himself. An execution was levied against him on December 6, 1909, and, others having followed, the debtor filed his petition on December 18. Prior to taking over the West End Lane business, the debtor traded for some years with success at Maidenhead, and he sold that business in November 1908 for 1,100*l.* The debtor attributes his failure to want of capital, over-estimation of the takings of the business, family illness, and law-costs. The statement of affairs was not filed, but the liabilities are estimated at 1,793*l.* and the assets at 300*l.* In the absence of any offer the case was left in the hands of the Official Receiver to be wound up in bankruptcy.

## Gazette.

### Partnerships Dissolved.

ELLIS, S., and WARD, A. E. J., Salisbury, Wilts, surgeons and apothecaries, under the style of Ellis & Ward.  
FOX, A. E., and FOX, G., Banbury, chemists, etc., under the style of A. E. & G. Fox.

### The Bankruptcy Acts, 1883 and 1890.

#### RECEIVING ORDERS.

CAUDERY, W., & Co., Fenchurch Avenue, London, E.C., merchants and agents.

The following amended notice is substituted for that published on December 28, 1909: DORWARD, DAVID KIRKCALDY, and ATKIN, THOMAS (trading as Dorward & Atkin), Middlesbrough, mineral-water manufacturers.

#### ADJUDICATIONS.

ADAM, JOHN SIDNEY, St. Albans, Herts, late Denmark Hill, London, S.E., surgeon-dentist.

DIXON, AMOS BENJAMIN, Oxford, late Steeple Claydon, Berks, manager to the London and Provincial Horse and Cattle Medicine Co.

DORWARD, DAVID KIRKCALDY, and ATKIN, THOMAS (trading as Dorward & Atkin), Middlesbrough, mineral-water manufacturers.

ROBERTSON, EARL LUCIUS, Shaftesbury Avenue, London, W., late Brixton Road, London, S.W., dentist.

ROWTHORNE, WILLIAM HENRY, Rotherham, Yorks, surgeon.

CHINESE ESSENTIAL OILS.—During 1903 the exports of essential oils from China (chiefly star-anise and cassia) amounted to 517,733 lb., as compared with 1,574,800 lb. in 1907. The decline was thus 1,057,067 lb., or 37.37 per cent.



## New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

CORNWALL TAILINGS CO., LTD.—Capital 40,000l., in 1l. shares. R.O., Salisbury House, E.C.

LONDON ELECTRIC TREATMENT INSTITUTE, LTD. (P.C.).—Capital 5,000l., in 1l. shares. Objects: To acquire the Electro-therapeutic Institute business of A. F. Lambert at 43 and 44 New Bond Street, W.

BAKU RUSSIAN PETROLEUM CO. (1909), LTD.—Capital 750,000l., in 10s. shares. The first directors are H. Allen (director and deputy chairman of Costa Rica Railway Co., Ltd.), R. Barber, and R. Barnett.

RED SEA OILFIELDS, LTD.—Capital 450,000l., in 1l. shares. Objects: To acquire oil-bearing lands or concessions at Jemshah, in Egypt. The first directors are Allen Paull and J. S. Smith-Winby. R.O., 26 Victoria Street, Westminster.

TANSAN MINERAL-WATER CO., LTD.—Capital 50,000l. in 1l. shares. Objects: To acquire and deal in the "Japanese" mineral-water "Tansan." The first directors are W. H. Barnett, Sir Theodore V. S. Angier, J. E. A. Dick-Lauder, and G. I. H. Davidson. R.O., 5, London Wall Buildings, E.C.

H. S. SYNDICATE, LTD (P.C.).—Capital 100l., in 1l. shares. Objects: To carry on the business of company promoters, dealers in shares, manufacturers of and dealers in syphons, bottles, etc. The subscribers are A. E. Baker, 13 Victoria Street, Victoria Park Road, N.E., clerk, and W. Jackson, "Assaye," Parchmore Road, Thornton Heath, clerk.

K. R. SCHRAMM & CO., LTD. (P.C.).—Capital 3,000l., in 1l. shares. Objects: To adopt an agreement with K. R. Schramm and C. F. Phillimore, and to carry on the business of orthopaedic mechanicians and manufacturers of surgical appliances, etc. The subscribers and first directors are Mrs. M. A. Schramm and Mrs. M. M. Phillimore, 19 West View, Highgate Hill.

W. H. BRIDGE, LTD. (P.C.).—Capital of 10,000l., in 10l. shares. Objects: To take over the business of oil, paint, and colour merchants and drysalers carried on by Emma Bridge and W. T. Alexander at German Street Works, Manchester, as the "Executors of W. H. Bridge." The first directors are W. T. Alexander, T. H. Bridge, W. P. Bridge, A. T. Hall, H. H. Sissons, C. B. Sissons, and T. H. Sissons.

CHAMELON OIL CO., LTD. (P.C.).—Capital 10,000l., in 1l. shares. Objects: To carry on the business of box and carton makers, chemists, druggists, vendors of and dealers in boxes, cartons, embrocations, drugs, liniments, and medicines, etc. The subscribers and first directors are G. N. Watney, Valenoe, Westerham, C.E., and H. Savory, Gedgrave, Orford, Suffolk, farmer. R.O., 4 The Albany Courtyard, Piccadilly, W.

### Company News.

SYNTHETIC RUBBER CO., LTD.—To be voluntarily wound up. Mr. T. N. Hester, Elverton Street, Westminster, appointed as liquidator.

REEVE'S CHEMICAL SANITATION, LTD.—The company to be voluntarily wound up. Liquidator, Mr. Chas. H. Venning, 25 Lawrence Lane, London, E.C.

BUVO, LTD.—The company to be voluntarily wound up. Liquidator, Mr. Norton Baker, 26 Rosebery Avenue, London, E.C. Meeting of creditors at above address on January 18, at noon.

GEORGE POND & SON, LTD.—This company of retail chemists, trading at 68 Fleet Street, E.C., which was formed in October 1908 as a private company, with a capital of 5,000l., has just declared a dividend of 10 per cent. on its shares. Mr. G. P. Pond, the managing director, in informing us of the fact, states that the company "continues to sell proprietary and patent goods at face-price."

ARTHUR SHIRLEY & CO., LTD.—Mr. Arthur Shirley, of Shirley Bros., Ltd., Whitecross Works, Rockingham Street, Newington Causeway, S.E., writes: "Understanding that a firm has been registered this week under the title of Arthur Shirley & Co., Ltd., I hasten to say that the Arthur Shirley referred to therein is not myself, nor have I any connection whatever with the concern in question."

DAVEY HILL & HODGKINSONS, LTD.—A notice was gazetted on January 7 that at an extraordinary general meeting on December 23, 1909, a resolution was passed confirming the voluntary winding-up of the company. A meeting of the creditors was held at the offices of the British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N., on January 10, for the purposes mentioned in Section 188 of the Companies (Consolidation) Act, 1903. All claims to be filed on or before February 24 with the liquidator, Mr. Percy Child,

C.A., 13 Copthall Avenue, London, E.C. [This procedure is purely formal, and follows amalgamation of the company with the British Drug Houses, Ltd.]

MORTGAGES AND CHARGES.—The following particulars have been filed at Somerset House: *Bell Bros. & Bowes, Ltd.*, Mortgage debentures 700l., held by E. J. Drew and C. Overington, Brighton.—*Helen Best, Ltd.*, 35l. and 130l. debentures.—*Lady Blount's Medical Aid Society, Ltd.*, Charge on all debts, to secure 350l., held by A. Leigh, 90 Charing Cross Road, W.C.—*Slack & Cox, Ltd.*, A memorandum of satisfaction in full of 910l. and 600l. mortgages.—*Macdonalds (Manchester), Ltd.*, 1,500l. debenture, held by P. Macdonald, Glencoe, Edge Lane, Stretford, near Manchester.—*William Metcalf, Ltd.*, 15,500l. debentures. Trustees: R. H. Rowland and H. Whittaker, both of Accrington.

## Births.

CORKE.—At "Grasmere," King's Road, Gosport, on January 9, the wife of H. M. Corke, pharmacist, R.N. Hospital, Haslar, of a son.

MCCARTNEY.—At Adelaide Avenue, Coleraine, on January 9, the wife of R. F. McCartney, pharmaceutical chemist, of a daughter.

ORME.—At 11 Waverley Road, Southsea, on December 29, 1909, the wife of H. G. Orme, pharmacist (Messrs. Cruse & Co., Ltd.), of a daughter.

## Marriage.

NEWALL—DICKIE.—At Rosella Cottage, Alloa, on January 5, by the Rev. L. Maclean Watt, M.A., B.D., assisted by the Rev. A. W. Finlayson, M.A., B.D., Malcolm M. Newall, pharmacist, to Jane McKinstrie, daughter of Mr. Wm. Dickie.

## Deaths.

BECKETT.—The body of Mr. Ernest James Beckett, chemist and druggist, Warwick Road, Kenilworth, who had been missing since Monday, was found on Wednesday, January 12, in Thick Thorn Wood, near Kenilworth.

CARTER.—On December 31, Mr. John Carter, chemist and druggist, 10 Powis Street, Woolwich, London, S.E., aged seventy-eight.

DOBSON.—On January 3, Mr. George William Dobson, chemist and druggist, 25 High Street, Skipton, aged thirty-one.

HOWELL.—At 13 Mark Street, Cardiff, on January 5, Mr. Thomas Howell, pharmaceutical chemist, aged eighty-two. Mr. Howell, who passed the Major in April 1856, served his apprenticeship at Haverfordwest, in his native county, Pembrokeshire. He next joined Mr. Vachell, chemist, Duke Street, Cardiff, and later migrated to London, where he opened on his own account. Leaving the Metropolis about fifty years ago, he went back to Cardiff and commenced business at 253 Bute Street, where he continued until he retired fifteen years ago, when his nephew, Mr. Howell Phillips, took over the pharmacy. The deceased gentleman was a widower and leaves no children.

LASHAM.—At Dee Side, Grove Hill, Woodford, last week, Mr. John Lasham, chemist, aged ninety-five. Mr. Lasham, who died after an illness of only two days' duration, was the oldest resident in Woodford, to which place he removed on retiring. He was in business at Romford for over thirty years. Mr. Lasham had served on the West Ham Board of Guardians, and also as a member of the old School Board at Woodford. The interment took place at Woodford Parish Church Cemetery on January 7.

MACKAY.—At 35 Albert Street, Aberdeen, on January 8, Mary Anne Henderson, widow of David Moir Mackay, chemist, Aberdeen. Mr. Mackay, many years ago, occupied the shop in Exchequer Row, from which Mr. Simpson removed eight months ago. It was the oldest chemist's shop in Aberdeen.



**POTE.**—At 3 Prospect Park, Exeter, on December 28, 1909, Mr. Samuel Robert Pote, aged sixty-eight. Mr. Pote was very well known and popular among chemists and medical men in the West of England, Eastern Counties, and the North as the representative for over twenty-five years of Henry Silverlock, Blackfriars Road, London, and later of Messrs. Ford, Shapland & Co., Great Turnstile, London, W.C., whom he represented in Scotland and the North of England until overtaken with illness within a few weeks of his death. There was a large and representative gathering at the funeral, which took place at the Exeter Cemetery.

**RYDER.**—At 35 Albury Place, Aberdeen, on January 7, Mr. James Gove Ryder, chemist and druggist.

**SMITH.**—On January 7, Mr. William Ross Smith, chemist and druggist, 38 Linnet Lane, Liverpool, aged sixty. Mr. Smith had businesses at Princes Road and Lark Lane. The funeral, which was attended by several representatives of the trade, took place at Smithdown Road Cemetery on Tuesday, January 11.

**WALDER.**—Suddenly, on January 6, Mr. Frank Walder, chemist and druggist, manager for Mr. Richardson's pharmacy, High Street, Yarmouth, I.W., aged fifty-one. Mr. Walder dropped down dead in the street, and the coroner's jury returned a verdict that death was due to failure of the heart's action as a result of an accidental fall.

## Recent Wills.

**MR. WILLIAM HENRY HANCOCK**, High Street, Wotton-under-Edge, Glos., chemist and druggist, who died December 4, 1909, aged seventy-eight years, left estate of the gross value of 1,541*l.* 1*s.*, with net personalty 1,498*l.* 12*s.* 5*d.*

**MR. HENRY HARKER**, a member of the firm of George Harker & Co., Ltd., spice-merchants, Upper Thames Street, E.C., who was accidentally shot while out with a shooting-party in Roughs' Wood, near Watford, Herts, on October 28, 1909, aged fifty-six years, left estate valued at 4,573*l.* 17*s.* 5*d.* gross, with net personalty *nil*.

**MR. JAMES GAGE SNELLING**, Norwich, a director of Coleman & Co., Ltd., and of Coleman & Co. (Wincarnis), Ltd., who died on November 1 last, aged seventy-six years, left estate of the gross value of 62,161*l.* 2*s.* 8*d.*, with net personalty sworn at 62,020*l.* 4*s.* 7*d.*

## Business Changes.

**MR. BUNTING**, chemist, has purchased the business of Mr. A. G. Wrench, chemist and druggist, at 92 Kirkdale, Sydenham, London, S.E.

**MR. HAROLD M. MORGAN**, Ph.C., has joined the staff of Messrs. Alfred Bishop, Ltd., as representative in the North of England and Scotland.

**MESSRS. A. E. & H. E. BAILEY**, pharmacists, have purchased the business of Mr. G. W. Green, chemist and druggist, 64 High Street, Highgate.

**MR. H. C. SWABY**, chemist and druggist, East Molesey, has had a shop-front fitted to his pharmacy. The premises formerly resembled a large private house.

**MESSRS. H. COOK & CO.**, chemists, Gillingham, Kent, are removing to more commodious premises at 185 High Street (two doors from their present business), as soon as the necessary alterations are completed.

**MESSRS. MUNRO & CO.** have acquired the business of Messrs. F. H. Johnson & Co., 275 High Street, Lewisham, S.E. The business has been carried on for some months by Mr. Marshall, late of Lambeth Walk, S.E.

**MR. C. W. DUFFIN** has acquired the drug, optical and photographic business of the late Mr. R. Robson, 8 Market Place, Wakefield. The business hitherto carried on by him at 236 Kirkgate will be continued under qualified management.

With reference to the "Gazette" notice (*C. & D.*, January 8, p. 40) as to the dissolution of partnership between Mr. C. C. N. Westphal and Mr. C. Holzbacher, 195 Upper Thames Street, London, E.C., we are informed that Mr. C. C. N. Westphal has retired, and that Mr. C. Holzbacher is continuing the business as "Charles Westphal."

## Personalities.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

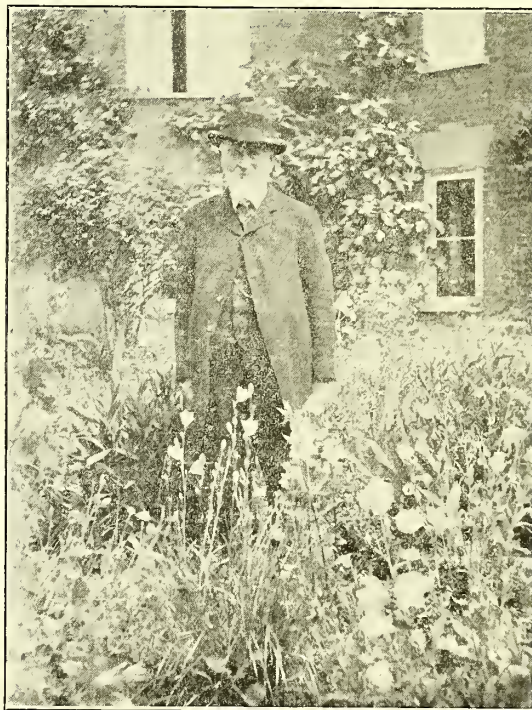
**ALDERMAN J. A. STEWARD**, chemist and druggist, 27 High Street, Worcester, has been appointed Municipal Charity Trustee by the local City Council.

**MR. ALFRED HUTCHISON**, 47 Chancery Lane, London, W.C., honorary solicitor to the Society of Chemist-Opticians, has been admitted a freeman and liveryman of the Spectacle-makers' Company.

**MR. W. J. UGLOW WOOLCOCK**, Ph.C., Secretary of the Pharmacists' Representation Committee, is—as a student of Gray's Inn—reading for the Bar. His name occurs in the list published on Wednesday of those who have passed the examination in Criminal Law and Procedure of the Council of Legal Education.

**MR. HENRY S. KUTNOW**, of Jesus College, Cambridge, only son of Mr. Sigismund Kutnow, came of age on Boxing Day, and has received many valuable gifts, among them a gold cigarette-case from the staff of Messrs. S. Kutnow & Co., and a fine gold watch (with inscription) from the publishers of "The Times" and other leading dailies.

This characteristic portrait of the late Mr. Octavius Corder, Ph.C., F.L.S., of Norwich, is the last that was taken of him, and it shows Mr. Corder in his garden at



Brundall, near Norwich, of which he was passionately fond; in fact, a few weeks ago he said to a friend, "I hope there will be gardens in the great Hereafter, and that there will be a place for me." We learn that death occurred unexpectedly. Mr. Corder was transacting business on Monday, January 3, two days before his death. His sons, Edward and John T. Corder, are to continue the business. There are also five daughters. The funeral took place on Saturday afternoon, January 8, at Brundall, in the presence of a large gathering of relatives and friends. The procession was met at the lych gate by the Rev. C. M. Chamberlin (rector of Brundall) and the Rev. A. J. Barton, of Bradestone, Mr. Corder having been churchwarden in the latter parish for twenty years. The service in the church was conducted by the rector. The deceased was laid to rest beside his wife, who died about a year since. An exceptionally large number of beautiful wreaths were received.



## Trade Notes.

**Calox Agency.**—Messrs. McKesson & Robbins, New York, have appointed Messrs. G. B. Kent & Sons, Ltd., 75 Farringdon Road, London, E.C., British agents for the sale of "Calox" tooth-powder, which was held by the late Mr. A. C. Wootton.

**JAPAN-BRITISH EXHIBITION.**—British trade with Japan is 24,000,000*l.* annually, and it is thought that this can be augmented by exhibiting British manufactures at the forthcoming Japan-British Exhibition at Shepherd's Bush. The Secretary in an advertisement in this issue invites applications for particulars of the spaces to let.

**ELECTION SOAP.**—Messrs. Edward Cook & Co., Ltd., soap-makers, Bow, London, E., have produced a series of soap statuettes of prominent politicians. The series includes Mr. Asquith, Mr. Balfour, Mr. Lloyd George, Mr. Winston Churchill, Lord Lansdowne, and Mr. J. Chamberlain. The statuettes are 3½ inches high, and are made in various kinds of soaps. They retail at one penny each, and should sell "like hot cakes" in any district during the time of the parliamentary elections. "Little big men" is the name Messrs. Cook apply to the series.

**GEKA AGENCY.**—Messrs. Reitmeyer & Co., 65 Crutched Friars, London, E.C., have the sole depôt for Great Britain and Colonies for the Geka-Werke Offenbach, Dr. Gottlieb Krebs, G.m.b.H., Photo-chemical Works, Offenbach O. Main. The specialities of this company include a wide range of photographic goods, developers, toning-baths, colour-baths, varnishes, flashlight powders and cartridges. A list is published which contains particulars and prices of these goods, and a useful booklet has been issued regarding flashlight photography—they are both well worth study by photographic chemists.

**THE SEED-TRADE.**—Messrs. Potter & Clarke, Ltd., 60 to 64 Artillery Lane, London, E., pack flower-seeds in penny packets, and have ready the new season's stock, about which chemists should make inquiries. A feature in this year's seeds is a series of prize sweet peas in penny packets; the varieties are "A. J. Cook" (blue), "Countess Spencer" (rose pink), "Primrose Spencer" (magenta), "John Ingram" (crimson), "Spencer" (white), and "Frank Dolby" (pale mauve). So many people grow sweet peas now that there is a good demand for named varieties. The selection which Messrs. Potter & Clarke offer in penny packets is unequalled.

**PRICE-LIST.**—Messrs. Duncan, Flockhart & Co., Edinburgh, and 143 Farringdon Road, London, E.C., issue a price-list which takes premier place in the matter of arrangement and facility of reference. The index takes the form of a marker and calendar, but it cannot be mislaid, being attached to the cover. The list is provided with a cut index on the edges, thus giving ready access to the sections. These are anaesthetics, capsules, malt extracts, concentrated mixtures, organo-therapeutic preparations, pills, powders, soaps, ointments, suppositories, tablets, synthetic preparations, and sundries. The list is bound in buckram, and provided with a ring by which it can be suspended in a handy place in the office.

**"PINO" HANDKERCHIEFS.**—Under this name, Messrs. Thomas Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, London, E.C., are putting on the market an "influenza handkerchief" made of tissue similar to Japanese crepe paper, but of British make, with an interlining of absorbent wool saturated with pine oil. The handkerchiefs are recommended for use by those suffering from consumption, asthma, and all catarrhal complaints, as they are so cheap that they can be destroyed after use. They are put up in packets of fifteen handkerchiefs (six packets being enclosed in an attractive carton) at 4*s.* 6*d.* per dozen packets, and are on the P.A.T.A. list to be retailed at 9*d.*, with a minimum of 7½*d.* Chemists should sell them freely.

**THE ALLIANCE DRUG AND CHEMICAL CO.,** 34 Leadenhall Street, London, E.C., have issued their price-list for January 1910, the prices being revised to December 12, 1909. We learn from the cover of the list (which extends

to twenty-nine pages) that the business of the Company was established in 1812 and was reorganised in 1902. The prefatory pages in the list set forth some points as to the supply of medicines, and the conditions upon which the Company sells goods at the quotations in the list, which are "absolutely net without discount or deductions of any kind whatever," or such allowances as carriage—all of which may be seen by reference to the list itself, which also includes useful tables of railway rates, measure equivalents, P.O. charges, etc. The list proper is in the usual style, and includes all chemicals, drugs, and galenicals, as well as lozenges, tablets, capsules, flavouring-essences, coated pills, and druggists' sundries. Copies can be obtained by post from the above address.

## Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 obtainable at Money Order Offices for £1 and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 23 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

- (From the "Trade-marks Journal," December 29, 1909.)  
 "EPANCO": for hair-cream (48). By E. A. Panther & Co., 13 Horsefair Street, Leicester. 317,961.  
 "GRANDEF": for all goods (48). By Prescott & Co., 63 Corporation Street, Manchester. 318,107.  
 (From the "Trade-marks Journal," January 5, 1910.)  
 "A G F A" entwined, for chemicals (1, 2, and 3), 317,277/8/9; for all goods (4), 317,280; and for perfumery, etc. (48), 317,281. "A G F A" entwined, in oval, for chemicals (1), and for all goods (4), 317,308/9. "A G F A" on shield held by bear, for chemicals (1) and for all goods (4), 317,310/11. Label device, for chemicals (1) and for all goods (4), 317,312/3. "AGFA" for chemicals (2 and 3), 317,273/4; for all goods (4), 317,275; and for perfumery, etc. (48), 317,276. By Berlin Aniline Co., Ltd., 26 Princess Street, Manchester.  
 "PRIMAX": for chemicals (1). By Wilkinson, Heywood & Clark, Ltd., 7 Caledonian Road, London, N. 318,317.  
 Picture of group of animals, with inscription including word "M-CURE"; for veterinary medicine (2). By E. S. Evelyn and S. Chatterton, Ellerslie, near Auckland, N.Z. 313,119.  
 "MERCALOX": for chemicals (2). By Casein, Ltd., Sheepcote Lane, Battersea, London, S.W. 318,237.  
 "CALIFORNIA SYRUP OF FIGS" (by order): for a medicinal preparation (3). By California Fig Syrup Co., 324 Hayes Street, San Francisco. 305,877.  
 Portrait of applicant; for all goods (3). By James Harman, 287 Rochdale Road, Bury, Lancs. 318,096.  
 "EMULSEN": for a medicine (3). By W. S. White, 222 Queen's Road, Miles Platting, Manchester. 318,101.  
 "IODOSTAEN" and "TAMPOL": for all goods (3). By Hoffman-La Roche & Cie., 184 Grenzacherstrasse, Basle. 318,223.  
 "TRIVISCUM": for a medicine (3). By H. A. Cuthbertson, 10 Chapel Lane, Longton, Lancs. 318,254.  
 "UMBIXA": for a medicine (3). By G. C. Mares, 96 St. John Street, London, E.C. 318,288.  
 "PROCTONES," "KINETICA," "LUSOGEN," and "METABOLA": for chemicals (3). By John Shaw, 89 Farringdon Street, London, E.C. 318,419, 318,607/8/9.  
 "RU-MONA": for a medicine (3). By T. Maughan, 46 Grainger Street West, Newcastle-on-Tyne. 318,650.  
 "MASSOGRA": for medicinal chemicals (3). By A. H. Cox & Co., Ltd., Brighton. 318,676.  
 "LORD KELVIN" (device with portrait of); for scientific instruments and apparatus (8 and 10). By Kelvin & James White, Ltd., 16, 18, and 20 Cambridge Street, Glasgow. 311,674.  
 "GRADULIQUE": for an atomiser (11). By C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, London, E.C. 318,226.  
 "BUCK UP": for essences, etc. (42), and for mineral and aerated waters (44). By Stevenson & Howell, Ltd., 95A Southwark Street, London, S.E. 317,339/40.  
 "TASNIM": for an aerated beverage (44). By Wheeler & Co., Ltd., 8-16 Eliza Street, Cromac Springs, Belfast. 317,768.



## Parliamentary Matters.

### Dissolution of Parliament.

**K**ING EDWARD VII., at a meeting of Council held at Buckingham Palace on January 10, signed a proclamation dissolving the present Parliament and declaring the calling of another, which will meet on February 15.

### Mr. Glyn-Jones's Candidature.

Mr. W. S. Glyn-Jones, pharmacist and barrister-at-law, the Liberal candidate for Stepney, is a busy man just now. His whole time is spent at Stepney during the day receiving deputations and calling on electors, and during the evening addressing public meetings. The headquarters in Commercial Road East is a scene of much life and enthusiasm, and it is an interesting revelation of the broad-minded views of some pharmacists to find that though politically of opposite faith they are helping in a practical way to secure the return of a Parliamentary representative of pharmacists. Although such workers are not suitable as canvassers, there is plenty of clerical work in which they have been able to assist, and as Mr. Glyn-Jones stated to the writer, it will be one of the brightest memories in a very brisk campaign to recollect the rally of his drug-trade friends. It is astonishing to observe the amount of work that falls to a Parliamentary candidate, but in regard to the numerous deputations which wait upon Mr. Glyn-Jones those who know him may be sure that his tact stands him in great stead. On Wednesday, which may be taken as a typical day, Mr. Glyn-Jones held two meetings. In the afternoon a tradesmen's meeting took place in the Small Meeting Hall, Garden Street, Stepney Green. This was attended by about 100 electors of the shopkeeper class, and the talk was all shop. First one of the secretaries of the Town Tenants' League asked the views of Mr. Glyn-Jones on the Town Tenants' Bill, the objects being explained to the meeting. The candidate then gave his views on the matter. He approved of the objects of the Bill, and he then proceeded to refer to other things in which tradesmen are specially interested. These included transference of part of the education rate to the National Exchequer, necessity for the registration of firms, the administration of the Sale of the Food and Drugs Acts, Weights and Measures Act, Trade-marks Act, Patents Act, and Civil servants' competition in trade. Some interesting particulars of Mr. Glyn-Jones's business career transpired, which showed him to be conversant with the every-day life of his hearers. Particularly interested the audience seemed to be in his account of the foundation of the Proprietary Articles Trade Association, and a representative of the Saddlers' and Harness-makers' Association afterwards bore testimony to the good that Mr. Glyn-Jones had effected in other trades. Altogether a good impression was created in the minds of those present.

In the evening a public meeting was held in a neighbouring school. The hall was packed as tight as it could be, and two overflow meetings had to be arranged. At all these meetings the candidate was listened to with attention, and the cheering that took place when Mr. and Mrs. Glyn-Jones entered the hall was something of which the whole drug-trade might feel proud.

The polling day at Stepney is Tuesday, January 18, and we are asked to intimate that Mr. Glyn-Jones would be pleased to receive offers of the loan of motor-cars and other conveyances for the purpose of taking voters to the poll. There are many electors who have recently removed to be fetched from a distance, and not a few who are too infirm to walk any distance but who are eager to record their votes for the chemists' candidate. Any of our readers who are willing to lend conveyances should communicate at once with Mr. Glyn-Jones at the committee rooms, 351 Commercial Road East.

Mr. G. H. Richards, XL-All insecticide agent, 234 Borough High Street, London, S.E., is against Mr. Glyn-Jones, as "his intention is to support the monopoly of chemists and amend, if possible, the provisions of the Poisons and Pharmacy Act." He proposes to canvass the tradesmen of Stepney against Mr. Glyn-Jones.

### Mr. Balfour and the Spirit-duty.

Mr. A. J. Balfour has replied to a correspondent who pointed out that it had been asserted that if the Unionist Party is returned to power the extra tax of 3s. 9d. on spirits, now being paid by the trade, will not be levied retrospectively for the period subsequent to the prorogation of Parliament on December 3:

"Mr. Balfour writes that Mr. Austen Chamberlain, speaking on behalf of the whole Unionist Party, has stated that if the Unionist Party came into power after the election they would legalise the collection of the Customs and Excise duties at the rates which have been in force since the passage of the Budget resolutions. This, of course, applies to the spirit-duties."

### English and German Chemicals.

At a meeting of business men in connection with Mr. Arthur Brampton's candidature for Central Birmingham, held in the Midland Hotel, Birmingham, last week, Mr. F. H. Alcock, Ph.C., F.I.C., put a question regarding chemicals manufactured in England and Germany. Sir Thomas Barclay, Ph.C., undertook to reply to it, and he said:

"In the heavy-chemical industries we are as strong here as they are in Germany. There is no denying the fact, however, that so far as the chemicals used in pharmacy are concerned, they are made in Germany in much larger quantities than in England, the reason being that the German Government subsidises science in a much greater degree than our own. Manufacturers and others, too, employ doctors and bachelors of science at very small salaries, awarding them a large commission for discoveries of commercial value. German chemical inventions are also backed up by doctors and other professional men of eminence, whereas medical men in this country are debarred from backing up such inventions by the Medical Council. He hoped to see these disadvantages removed so far as England is concerned, for Englishmen are quite as capable as the Germans. If the same conditions existed here as in Germany, quantities of similar chemicals would be manufactured in this country instead of being imported from Germany."

A Liverpool manufacturer, writing to the "Liverpool Post," says:

"I have received a contract from a German firm of chemical-manufacturers, which states that should a British import-duty be imposed during 1910 on a particular chemical product this duty will be payable by buyers on any delivery made after the introduction of such a measure, and the price of the English chemical product will at the same time also be increased to the extent of that duty. This rule will apply to single purchases as well as to the then undelivered balances of existing contracts."

"The invasion of the foreign patent medicine has turned chemists against Free Trade," says the "Daily Mail," which backs up this generalisation with the remark only of a Bradford chemist, "Prices have risen with Free Trade; everything is dearer, especially drugs." [See *C. & D.*, January 1, p. 12, second column.]

### Candidates and Pharmacy Law.

The Exeter Association of Pharmacists sent a letter to the town's parliamentary candidates (*C. & D.*, December 25, 1909, p. 952) explaining the position which has arisen consequent on the decision in the Mercer case, and asking if they would support a Bill

"having as its main object a clause to the effect that any premises in which the business of a chemist and druggist is carried on in accordance with Section 3 of the Poisons and Pharmacy Act, 1908, may be described as a pharmacy, but any person, company, or partnership using such description for any premises not so conducted shall be subject to the penalties provided by Section 12 of the Pharmacy Act, 1852, and Section 15 of the Pharmacy Act, 1868."

Mr. F. W. Vinden, Honorary Secretary of the Association, now informs us that Mr. H. E. Duke, K.C., the Conservative candidate, has written to Mr. Wippell Gadd, the President, saying that he will "support a Bill for preventing improper use of the term 'pharmacy,'" and Mr. Harold St. Maur, the Liberal candidate, writing to Mr. Vinden, says "he will be quite prepared to support such a Bill provided he is elected."

Mr. W. Staning, as Secretary of the Hull Pharmacists'



Association, has addressed the following question to the local candidates for Parliament :

"If elected, will you support a Bill to amend the Pharmacy Act, 1903, so as to curtail the powers of local authorities in the matter of granting poison-licences to unqualified traders, and to make it illegal for any person who is not a pharmacist to use in connection with his place of business the sign 'pharmacy' or any other colourable imitation of the title 'pharmacist.'?"

Mr. A. Stanley Wilson, the Unionist candidate for the Holderness Division, replied that he will support a Bill to amend the Pharmacy Act, 1903. Captain G. B. Bethell, the Liberal candidate, wrote :

"I make it a rule not to answer questions addressed to me on behalf of societies, etc. I am always glad to answer at a meeting to the best of my ability. In my case, I could not answer your question without further knowledge of the subject."

Dr. Aske, Liberal candidate for Central Hull, replied :

"It is very difficult, of course, for candidates to give definite replies on these matters without having an opportunity of inquiring fully into the subject-matter, which, of course, there is no time or opportunity to do during an election fight. I should, however, be pleased to inquire into the matter afterwards, and should always do what was best in the public interest."

Mr. R. M. Sebag Montefiore, Unionist candidate, East Hull, wrote :

"I cannot pretend to be familiar with the question which you raise, but I cannot see at present the slightest objection to the Bill which your Association desires to pass through Parliament."

"I think the conditions under which local authorities grant poison-licences to unqualified traders should be restricted as far as possible in the interests of the public, and I quite agree that anyone who is not a pharmacist should not call his place of business a pharmacy or use any colourable imitation of that term. You will readily understand, however, that as the subject is one to which I have given no study, I feel I must leave myself free to act in accordance with any opinions I may form on further consideration of the subject, but I ask you to believe that I approach the matter with strong sympathies in your direction."

Sir H. S. King, Unionist candidate for Central Hull, wrote :

"I am certainly opposed to persons calling themselves pharmacists who have no right to the title, but as regards the granting of licences to sell poisons, I see no reason to interfere with the discretion of the local authorities, who are not likely to err on the side of too indiscriminate a granting of such permission."

Sir John Sherburn, the Unionist candidate for West Hull, wrote :

"The recent Act does, in my opinion, require reviewing. I have had some experience in connection with its administration. In regard to the latter part of the question, my answer is in the affirmative."

A deputation from the North-East Lancashire Chemists' Association interviewed the four Blackburn Parliamentary candidates:—Lord Robert Cecil (C.), Mr. G. S. Bowles (C.), Sir Thos. Barclay (L.), and Mr. Philip Snowden (Lab.), and submitted the following questions *re* legislation in pharmacy :

1. Will you, if elected, support an amending Bill to make effective the avowed intentions of the Government respecting titles, as expressed during the passage of the Poisons and Pharmacy Act, 1903—viz. that the word "pharmacist" shall be restricted to the individual, and that the "place-name, pharmacy," shall only be used by a pharmacist.

2. And to prevent the indiscriminate granting of poisons licences by local bodies, which has become so general, this wholesale granting of licences being altogether contrary to the definite assurances made, from time to time, by responsible members of His Majesty's Government during the passing of this Bill.

The deputation consisted of Mr. Thos. Critchley, J.P., Mr. R. Lord Gifford, Ph.C., Mr. D. Yates, Alderman Shorrocks, and Mr. E. Highton (Divisional Secretary). The candidates, without exception, agreed to support the proposals put forward, describing them as just and fair, and consented, if elected, to support an amending Bill to remove the anomaly which had been created. They fully agreed that chemists suffered great injustice under present conditions.

## Medical Candidates.

According to the "British Medical Journal" there are twenty-four medical men standing as Parliamentary candidates. This is the same number as in 1906, when twelve were successful in obtaining seats in Parliament.

## Miscellaneous.

Daisy, Ltd., of Leeds, has a selection of election posters 18 in. by 11 in., which contain topical allusions calculated to enhance the sale of Daisy Powders. The company's advertisement in this issue tells how the posters may be obtained.

"VOTE FOR VASELINE, EVERYBODY'S FRIEND," is the alliterative and striking phrase that the Chesham Manufacturing Co., Holborn Viaduct, London, E.C., have made familiar to Londoners this week. It is on 'buses, trams, cars, and hoardings, the posters ranging in size from a 2-ft. diamond to an oblong 4 ft. 8 in. by 2 ft. deep.

The "Birmingham Daily Mail" cartoonist has been using Sir Thomas Barclay liberally in connection with the local contests. In one sketch Sir Thomas figures as Falstaff, and in the other with his coat off and his sleeves up, "fighting the foes" of Liberalism. Sir Thomas is President of the Birmingham Liberal Association.

Mr. F. Bentley, Hon. Secretary of the Birmingham Branch N.U.A.P., informs us that he has written to the prospective Parliamentary candidates for Birmingham on the subject of the inclusion of chemists' assistants in the Shop Hours Bill, and has received satisfactory replies from Sir Francis Lowe, Arnold Butler, Austen Chamberlain, J. Dawson, Fred Hughes, and J. J. Stephenson.

The election addresses of Parliamentary candidates are very useful at present to customers who employ odd scraps of paper. Words sometimes fail the worthy gentlemen who seek the electors' support, and a piece of blank paper that varies in size remains. One pharmacist received an application for a pick-me-up on a piece of such a document, but inquiries failed to elicit whether the draught was required after a prolonged perusal of the printed matter on the other side or attendance at the candidate's uproarious meeting the night before.

It is understood that Mr. A. M. Mond, M.P., has instituted proceedings against Mr. Ben Tillett, the Labour candidate, who is opposing him at Swansea. Mr. Tillett, he states, has attacked him as an employer of labour, and Mr. Mond attaches importance to his reputation as such, "and it is clear that this must appear besmirched in the eyes of honest men if the allegations made by him against Brunner, Mond & Co. are true. I say that they are not true—that they are false in every detail." Brunner, Mond & Co.'s employes have, at a great and representative gathering, voluntarily passed a vote of confidence in the company.

## Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

**Volumetric Estimation of Sulphates.**—A. D. Mitchell and C. Smith ("Trans. Chem. Soc.," December 1909, p. 2198) advocate the following method as rapid and accurate. A convenient quantity of the sulphate is dissolved in water or pure hydrochloric acid (or, if necessary, dilute nitric acid) and a slight excess of standard (2N/5) solution of barium chloride is added. After boiling, the mixture is rendered neutral by adding ammonium hydroxide; sodium acetate, acetic acid, and a slight excess of decinormal ammonium bichromate solution are added. The mixture is made up to 100 c.c., and 25 c.c. of the clear supernatant liquid is removed after the precipitate has settled, and titrated with vigintinormal ferrous-ammonium sulphate, using potassium ferricyanide as indicator. The first appearance of a green tinge is taken as the end-point. Preliminary experiments show that some barium chromate remains in solution on precipitating a solution of barium chloride with ammonium dichromate, owing to the formation of free mineral acid, which is prevented by the addition of excess of sodium acetate. Traces of potassium dichromate are carried down with the barium chromate when it is used as precipitating agent, and the ammonium salt is preferable since it is more soluble. The method has been applied to ammonium, sodium, potassium, zinc, magnesium, and copper-ammonium sulphates, giving results accurate to about 0.2 per cent. In the case of potassium sulphate considerable adsorption occurs (nearly 2 per cent.), which is minimised by boiling the precipitate for several hours with a little dilute hydrochloric acid, neutralising with ammonium hydroxide, and proceeding as before. With copper-ammonium sulphate a well-defined end-point, at which a green tinge affects the predominating brown colour of copper ferricyanide, can be found by practice. Excluding weighings, the authors state that five determinations can be made in an hour.



## Pharmaceutical Society of Ireland.

### COUNCIL-MEETING.

A MEETING was held in the Society's House, 67 Lower Mount Street, Dublin, on Wednesday, January 5. Mr. John Smith (President) occupied the chair, and the other members present were: Dr. J. A. Walsh, Messrs. John Edgar Connor, J.P., George D. Beggs, J.P., Wm. Frederick Wells, Henry Vincent Golder, Thomas Batt, D. M. Watson, Joseph H. Bowden, and James Michie. Mr. Arthur T. Ferrall, Registrar, was also in attendance.

#### THE LATE MR. J. S. MACARTNEY.

After the reading of the minutes of last meeting, the PRESIDENT said, before proceeding with the business on the agenda, he wished to refer to the death of their reporter, Mr. J. S. Macartney, B.A. He was sure it would be the wish of the Council that they should pass a resolution of sympathy with the sister and other relatives of Mr. Macartney on the loss they had sustained in the death of one of the most estimable gentlemen that, he dared say, most of those present had ever met. Mr. Macartney was a most estimable man in every way, a man who did honour to his profession; and he felt sure the Council would unanimously pass the vote of sympathy with the relatives of Mr. Macartney which he (the President) now begged to propose.

Mr. BEGGS seconded, and said there was not one around that table who did not regret the loss of Mr. Macartney. He reported the proceedings of the Council throughout the entire period of the Society's existence—over twenty-five years—and it was a melancholy pleasure to him (Mr. Beggs) to second the vote of sympathy to Mr. Macartney's relatives.

The vote was passed in silence, all the members standing.

#### MR. MACARTNEY'S SUCCESSOR.

On the motion of Mr. BEGGS, seconded by Mr. CONNOR, it was decided to approve of the appointment as reporter of Mr. John McKay by the three professional journals which publish the proceedings of the Council.

#### BELFAST PROSECUTIONS.

The REGISTRAR read letters from Messrs. Donnelly & Co., solicitors, Belfast, reporting that Mr. A. M. Dougan, R.D., had been fined 1*l.*, with 1*l.* costs, for failing to employ a qualified manager in his branch shop; and that Mr. Hugh Marshall, R.D., had been fined 5*l.*, with 1*l.* costs, for the compounding and sale of a medical prescription.

#### THE APOTHECARIES' HALL PRELIMINARY.

A letter was read from a gentleman who had passed the Preliminary examination of the Apothecaries' Hall, Dublin, desiring Preliminary registration by the Pharmaceutical Society.

Mr. WELLS said this was rather a hard case. This young man had been led to believe that the Preliminary examination of the Apothecaries' Hall would be recognised by the Pharmaceutical Society; but, as they were all aware from the recent proceedings of the General Medical Council, the Preliminary examination of the Hall was shown to be of no use.

Mr. CONNOR: The Medical Council won't accept it?

Mr. WELLS: They will not.

Mr. MICHIE: It is very unfortunate for the young man himself; but we can do nothing in the matter.

The PRESIDENT said the examination-papers enclosed showed the examination to be a stiff enough one.

Mr. WATSON: There will be no difficulty in his passing our examination; but he will have to pay the two guineas.

Mr. WELLS: In any case, he will have to pay the two guineas.

Mr. MICHIE: I think the Hall would give him back his fee. When the Medical Council will not recognise the examination it is of no use to him, and I don't see how we could recognise it. I suppose we will not hear of this examination of the Hall again.

Dr. WALSH: I believe they intend to go on holding the examination; they think they are in the right.

Mr. WELLS: Let the matter be held over until such time as the Medical Council agree to recognise the examination.

On the motion of Mr. MICHIE, seconded by Mr. WELLS, a resolution was passed to the effect that the Pharmaceutical Society could not accept at present the Preliminary examination of the Apothecaries' Hall.

#### MISCELLANEOUS.

Mr. Samuel Townley Smith, who had passed an Intermediate (junior grade) examination on all the subjects required, was admitted to Preliminary registration.

Messrs. F. W. Bell, M. Carroll, J. R. Meek, T. McGettigan, T. J. O'Connor, G. H. Wilson, Ph.C.s, and F. P. Gurd and W. J. Jenkins, R.D.s, notified changes in their addresses.

A certificate was read of the death of Mr. Robt. Wm. Carter, Ph.D.

On the motion of Mr. BEGGS, seconded by Mr. CONNOR, a vote of thanks was passed for the donation from the British Pharmaceutical Conference of a copy of the "Year-book" for 1909.

Reports were read from the Law Committee, the Certificates Committee, the Declarations Committee, the House Committee, and the School Committee; and cheques were drawn in payment of several accounts.

#### NEW MEMBERS.

On the motion of Mr. WELLS, seconded by Dr. WALSH, the following gentlemen were elected members of the Society:

Mr. Richard J. Carter, Ph.C., Laas, co. Kildare.

Mr. Wm. P. Doohan, Ph.C., 8 Queen's Parade, Bangor, co. Down.

Mr. Alexander Mitchell, Ph.C., The Medical Hall, Arklow.

On the motion of Mr. WELLS, seconded by Mr. BEGGS, the following gentlemen were nominated for membership:

Mr. Robt. McCay, Ph.C., Castleberg, co. Tyrone.

Mr. Robt. O'Shea, Summerville, Haverfordwest, South Wales.

Mr. George Edward Robinson, Ph.C., 12 Lower Camden Street, Dublin.

Mr. Arthur Edmund Welsh, Ph.C., 16 Market Square, Lisburn.

#### THE SOCIETY'S EXAMINATIONS.

The Preliminary examination took place on Thursday and Friday, January 6 and 7. Twenty-eight candidates (thirteen of whom were for re-examination) entered for same.

The Registered Druggist examination was held on Tuesday, January 11. Six candidates (three of whom were for re-examination) applied for admission.

The Pharmaceutical Licence examination took place on Wednesday, January 12, and following days. Twenty-three candidates (nineteen of whom were for re-examination) applied for admission.

The Pharmaceutical Assistants examination will take place on Monday, January 17.

These intimations having been made, the business of the Council concluded.

#### Preliminary Examination.

The following have passed: John Francis Clandillon, Gort; Thomas Hayes, Dublin; Theodore Ashmore Cronhelm, Bailieborough; Josephine Dolan, Newbridge, co. Kildare; Samuel Barron, Belfast; Thomas Aitken Austin, Bray; James Shannon Dunn, Limerick; William Henry Young, Carrickfergus; Herbert Pengwern Rees, Dublin; Patrick Joseph Kelly, Armagh; John Connolly, Clifony, co. Sligo. Sixteen candidates were rejected.

MR. THOMAS BARKER, Kirkstall, Aldridge Road, Perry Barr, Staffs, chemist and druggist, who died October 9, 1909, aged eighty-three, left estate of the gross value of 5,455*l.* 12*s.* 8*d.*, of which the net personalty has been sworn at 4,190*l.* 6*s.* 6*d.* The testator left to his wife, Mrs. Alice Mary Barker, all his household and personal effects and consumable stores absolutely, and he also left to each of his children 1*l.* on his or her birthday and 1*l.* on Christmas Day in each year, to each grandchild 5*s.* on each of these occasions. The residue of his property he left to his wife for life, and on her decease 100*t.* to his daughter Nellie. The ultimate residue of his property he left to his children in equal shares.



## Chemists' Windows.

Photographs of window-displays sent to the Editor for reproduction in this section should be accompanied by notes on how the windows were dressed, and, where possible, the results.



### A Hospital Window.

Mr. A. Mortimer, of the Woodlands Pharmacy, Ilford, sends the photograph from which the above engraving has been made, and the following notes:

"This effective window-show may interest some chemists, as it is a simple and cheap display. We had it in for three weeks; it brought us many new customers, many sales for invalid requisites, and last, but not least, the prize for shop-decoration at the local hospital carnival.

"The floor of the window was raised about 10 in., by the usual means—boxes with boards laid across; these were covered with a flowered crinkled paper to represent a carpet. In the front a few of our own showcards and hospital-cards hid the boxes. The walls were light wooden frames with a wall-paper covering. Upon these we fastened the pictures (picture postcards in dark paper frames), and when all was complete these were lifted bodily into position. The lattice window was made by tacking 1/2-in. white tape over a mirror. In front of this we placed the bed—a cardboard box draped with pink chintz crinkled paper, while the window-curtains were of similar material, but of a blue colour with dark-green bows. On the two tables were placed the usual sick-room requisites. The dressing-table was a small box covered with white paper, the drawers being drawn with black ink, and tacks half hammered in did very well for knobs. On this we placed a small hand mirror, baby's hair-brush and comb, with some small pieces of Goss china.

"The figures were cheap dolls dressed to suit their parts—the nurse in brown crinkled paper, with white paper apron and cap. The patient was bandaged around the head; while the doctor had one hand on the patient's pulse and in the other he held a toy watch. In the upper portion of the window were a few plants, two large red crosses, and a carnival poster, the whole draped with some green art muslin. The idea of the window is old, but results are good, and the total cost was under 3s."

## Agri-Horticultural Licences.

(Poisons and Pharmacy Act, Sec. 2.)

### Notice of Application.

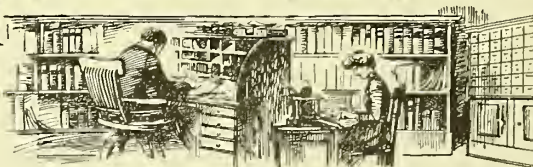
KEIGHLEY.—Tom Kershaw & Sons, Ltd., nurserymen, 8 Cooke Street.

### Consideration of Applications.

CAMBRIDGESHIRE.—The Local Government and Parliamentary Committee of the County Council unanimously recommended the refusal of the application of Mr. W. Few on January 8. Mr. H. F. Cook, J.P., in moving that the application be refused, pointed out that there was a qualified chemist within half a mile of applicant who met the public requirements. He also quoted the recent fatality from a poisonous insecticide at Kingston, with the Coroner's remarks thereon.

ESSEX.—It was reported at the quarterly meeting of the County Council on January 5 that only five applications had been received since the passing of the Act, all of which had been granted. It was decided to appoint inspectors in order to make inquiries as to any infringement of the regulations. The Finance Committee is asked to allow this inspection to be conducted by the local taxation inquiry officers.

# INFORMATION DEPARTMENT



The object of this department is to supply our subscribers with the names and addresses of manufacturers and agents, or other business information which they may be in need of. Inquiries should be sent by post, addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Inquiries in regard to dispensing, legal, practical, technical, or other pharmaceutical subjects should be addressed to The Editor, who will reply to them in the Correspondence Columns.

### Information Wanted.

We would be obliged if readers would reply, by postcard or otherwise, to any of the subjoined inquiries. Replies should be addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

- 29/42. Elastic hosiery: Continental makers.
- 42/9. Where may "Laxolettes" be obtained?
- 39/6. "Miva" shampoo-powders: makers or agents.
- 42/35. Actual manufacturers of "N.W.K." lanoline?
- 41/15. Source of supply of "Mirlelin," a hypodermic preparation (veterinary) for contagious pneumonia.
- 41/31. Cup-jacket papers for holding capsules (like small-sized pleated paper bottle-caps): who make?
- 145/23. Makers of "Nourishing Biscuits" (probably containing a meat extract) to retail at 10s. 6d. per lb.
- 38/30. Makers of or wholesale agents for "Tip-Top" toilet-paper, quality "B," with letters "S. D. T. Co." in circle.

### Information Supplied.

In reply to inquiries, information has been sent during the past week to subscribers and others by our Information Department in regard to the following subjects. The information will be repeated to any others requiring it who send a stamped and addressed envelope for the purpose to the Information Department as above.

- |   |   |
|---|---|
| Animal charcoal, manufacturers (41/46).             | Mallein, manufacturers (41/15).             |
| Bronchitis kettles, actual makers (42/14).          | Malloween cream, actual makers (40/45).     |
| "Cementum," proprietors (36/52).                    | Malted milk, makers (37/50).                |
| Collapsible tubes, makers (29/9).                   | "New Skin" agents (42/10).                  |
| Cowan's vaccination shields (39/7).                 | Oak extract, makers (37/41).                |
| Decker's perfumery, supply (38/73).                 | "Pax" powders for headache, maker (39/35).  |
| Decorated tin boxes, makers (39/16).                | Pil. Chichester, makers (36/51).            |
| De Miracle Co., address (35/39).                    | "Reducline," actual manufacturers (40/45).  |
| Evans & Wormull, address (40/44).                   | "Royal" toilet rolls, makers (32/43).       |
| "Formamint," makers (37/68).                        | Siebert's Angostura bitters, agents (39/5). |
| Galalith, actual manufacturers (40/25).             | Stauffer's yeast tablets, agents (40/26).   |
| Kimball's anti-rheumatic rings, proprietor (40/15). | Swinging signs, supply (41/40).             |
| Maize starch, first-hand dealers (41/43).           | "Theodine," makers (41/40).                 |
| Ebberzine, proprietors (40/45).                     | "Tot" powders, makers (40/24).              |
|   | "Windsor" toilet rolls, makers (32/43).     |
|   | "Woad" growers (36/28).                     |

MR. G. CLARIDGE DRUCE, M.A., Ph.C., Oxford, has been appointed a manager of St. Aldate Schools by the City Council.

MR. HARRY RICHARD LANE, formerly manager to Boots, Ltd., 112 High Street, Southend-on-Sea, Essex, chemist and druggist, who died at Gréytown, Natal, South Africa, on September 15, 1909, left estate valued at 410l. 10s. The sole executrix is the widow, Mrs. Gertrude Soame Lane, 5 Cashibury Terrace, Southend-on-Sea.

THE CHAMELEON-LIKE NATURE of a fish's coloration as it moves through the water has always baffled the attempts of artists to accurately portray it. Now, however, a few drops of chloroform placed in a tank of water immediately reduce the fish therein to absolute quiescence, while Lumière colour-plates are exposed, with the result that the fish and all the details of their intricate colour-scheme are faithfully recorded.



## Observations and Reflections.

By Xrayser II.

### The Return of Ulysses,

the most prudent and sagacious of the Grecian princes, to the fighting line, was not more warmly welcomed by the Greeks in front of Troy than is the return to active interest in pharmaceutical affairs of Mr. Carteighe by his colleagues on the Council, and indeed by pharmacists generally. Mr. Carteighe's indisposition during the past few months has been deeply regretted, on public no less than on personal grounds, and I trust that his presence at the front means restoration to health. By a life of strenuous work on behalf of pharmacy he has earned the respect and regard of every member of the craft, even though his plans have not always been received with unqualified approval. Mr. Carteighe's absence on critical occasions is a distinct loss, and we have never needed his strong common-sense more than at present.

### The Decline of the Pill

in the medical practice of the eighteenth century is a curious fact, and one that is even more marked in the second half of the century than at its beginning. Indeed, so far as the regular practitioner is concerned, pills seem to have steadily declined in favour for about a century and a half from the date of the London Pharmacopœia of 1639; and this is the more remarkable because they were, during most of the time, growing in public favour. Possibly, however, this may be partly the explanation. So many quack pills were on the market, and, with the growth of advertising, some of these became so notorious that the very name of pill may well have acquired a sinister sound in professional ears.

"The cannon shot, the doctor's pill,  
With equal aim are sure to kill,"

said an anonymous poet in 1763, and such men as Ward and Saffold, who at least claimed to be doctors, may have helped to bring both pills and the profession into disrepute. In any case the facts show that though the more gullible public ran after pills, the Pharmacopœia very largely discarded them. Culpeper, in his "Dispensary" of 1654, gives the formulæ of forty-two different pills from the earlier London "Latine book," twelve of which, he says, the College have left out of "their new piece of wit." In the edition of 1721 there are but twenty-three, and in that of 1746 only nine. In a Dispensatory of 1773, however, I find nearly fifty non-official formulæ (a good many of them from Quincy and Fuller), and in a later work there are twenty-one. It is evident, therefore, that pills were still prescribed that were not official. Culpeper's account of the origin of pills is curious, and may be quoted:

"They were first invented for the purging of the head (however Physitions have since ordered the business) because the matter there offending is not so soon taken away by any other physic."

### To Give a Dog a Bad Name

is proverbially the next thing to hanging him; and to call a business transaction "substitution" seems to be, in some people's minds, equivalent to damning it. Everybody will agree with the editorial comments on the correspondence in the "Weekly Dispatch," but some of us will probably be disposed to go a little further than the editor. There is a good deal of cant talked about substitution, and the word needs a stricter definition. Properly speaking, it means selling a person something other than he believes he is getting—an act which cannot be too strongly condemned. But between this and what "A. K. S." appears to mean by it there is a

wide gulf. Giving the public what they want is not always synonymous with giving them what they ask for; and it is often possible for a pharmacist to convince them of this. If he can convince them that what is really "wanted" is something he knows to be better adapted to the purpose, the case is, in a sense, one of substitution; but the substitution is the purchaser's not the pharmacist's; and if it benefits them both, so much the better. Every tradesman does this more or less, and it is indeed a considerable part of the art of business. If I ask a cycle-dealer for a make of machine he does not stock, and on which he cannot get a reasonable profit, I do not fly into a passion and call him a thief because he recommends to me the make for which he is an agent; that, as it seems to me, would be very uncharitable, and shocking bad manners. The probability is that he knows more about cycles than I do, and is as honest as myself. And surely a pharmacist, who is admittedly something more than a tradesman, may act in the same way with his customer, to their mutual benefit, and without blame. The Australian case reported last week (p. 37) is sufficient to show that he may sometimes stand between the public and something very much like fraud.

### Pharmacy in Queensland

is probably not so refined as pharmacy in Oxford Street; but I fancy that the Australian chemist and druggist is much more independent and self-reliant than the average Londoner in the same line of business, and probably just as capable as any. A man who has to depend on his own wits in cases of emergency—when the doctor is perhaps a hundred miles away and the nearest neighbour in business two or three days' journey distant—soon learns to rely on himself. The familiar injunction, "Consult the prescriber," takes on a new meaning if the process of consultation means a delay of days before the prescription can be made up. Under such circumstances one can readily appreciate the wisdom of adapting the syllabus, as is done in the Brisbane College of Pharmacy, so as to teach students to manufacture chemicals for themselves. This is all to the good, and I congratulate Mr. Cowley on having grasped the kernel of the problem and adjusted himself so wisely to his new environment. Apart from the mere pill-roller's point of view, it seems to me that in education of this practical character we have the germ of great possibilities for the future of any Colony. If the dispensing chemist is, by a little judicious instruction in the student stage, also set moving along the road to technical and industrial chemistry there is no limit to his usefulness in a new country whose natural resources are as yet an unknown quantity.

### The Education of Chemists and Druggists,

according to the interesting paragraph reprinted last week from the *C. & D.* of 1860, was apparently a "burning question" fifty years ago just as it is to-day. Then, as now, there were demands for unreasonable requirements, and the very language employed was such as we are very familiar with to-day. Thus history is repeating itself. I should not be in the least surprised if there were a widening of the registration door. Should this occur it will simply be the natural result of a reaction owing to screwing up the standard of qualification, and if the "powers that be" are not careful it will end in a new class of traders being recognised for whom the Minor examination will not be a necessity. Already a start has been made under the new Act, and a nucleus formed of a new order of traders, while the unrest among the holders of the Apothecaries' Hall qualification is symptomatic of what is in store if the new measure proves to be as elastic as its predecessor. It is curious to note in this connection that the Parliamentary Committee in 1865 recognised that the examination for retail druggists—i.e., poison-sellers—should not be of as high a standard as that for practical pharmacists. It would be strange indeed if the ultimate solution were to be found in a statutory disruption of the two classes, by the provision of a distinct qualification for the retailer of drugs and poisons, and a further qualification on a higher standard for the pharmacist.



## Standardisation of Coal Tar Disinfectants.

THE "Lancet" Commissioners have shown that, by their test, "Sanitas Bactox" ranks equally with one other preparation as the *highest* in germicidal power of the *homogeneous* group, and takes *first* place alone, when the cost is compared on a basis of efficiency.

By the standardised *B. Typhosus* test, however, "Sanitas Bactox" shows a co-efficiency of 20, whereas the other disinfectant only shows 15.

Again, "Sanitas Okol" takes first place in the group of *Emulsified* Coal Tar preparations, both with respect to efficiency and cost.

The Report of the "LANCET" Commissioners is open to a good deal of criticism, and the chemical work is grievously at fault.

We will send a note of our criticisms and copies of our new pamphlet (when ready) entitled "The Truth about Disinfectants and their Relative Values" on application.

The SANITAS CO. (Lim.), LINEHOUSE, LONDON (C. T. Kingzett, F.I.C., F.C.S., Chairman.

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## Editorial Articles.

### British Trade in 1909.

THE Board of Trade Returns for December 1909 show a decided improvement in our foreign commerce, the year having ended in an extremely satisfactory fashion, the December record being the best of the twelve months. Both imports and exports were better than in 1908, and better even than those of the "boom" year 1907. The total of last month's imports was 60,785,883*l.*, which was 3,959,899*l.* more than in 1908, and 4,793,402*l.* in excess of the figures for 1907. The exports show an advance of 4,388,321*l.* over December 1908, and an increase of 1,048,161*l.* on December 1907. Re-exports were also better, the total representing an increase of 1,448,395*l.* on December 1908, and 2,914,949*l.* on December 1907. The returns for the complete twelve months afford an interesting study, as we have had again what may be called a "billion" year, or more properly a total year's trade of well over a thousand millions, the figures being as follows:

	1907	1908	1909
	£	£	£
Imports ...	645,807,942	592,953,487	624,740,517
British exports ...	426,035,083	377,103,824	378,379,444
Re-exports ...	91,942,084	79,623,697	91,365,465
	£1,163,785,109	1,049,681,008	1,094,485,426

The significance of the present position is not appreciated without looking at the figures from the close of 1907, the year in which this country, France, Germany, and the United States enjoyed great trade prosperity, with falling-off from the beginning of 1908. We have prepared a series of tables showing imports, exports, and re-exports month by month in 1908 and 1909. From the first of these (p. 81) it will be seen that imports continued to decline below 1908 figures until April, then increase began, and the year finished with 31,787,030*l.* more imports than in 1908, food and raw materials accounting for twenty-seven millions of this and manufactures for four millions. The classes of goods are set out in the table. The slump in exports continued until June, the decline for the first five months representing fourteen million pounds' worth of goods, twelve millions of which were manufactures. Since the beginning of June that decline has been made good, and the year ends 1,275,620*l.* better in exports than in 1908, while December 1909 was better than December 1907 by over a million (33,789,897*l.*, against 32,741,736*l.*). The re-exports trade was better than 1908 every month of the year, and is a little over half a million short of 1907. It may be useful to recall the figures of chief competitive countries—viz., FRANCE (1907), imports, 248,920,000*l.*; exports, 223,840,000*l.*; total, 472,760,000*l.* GERMANY (1906), imports, 392,527,000*l.*; exports, 306,250,000*l.*; total, 698,777,000*l.* UNITED STATES (1907), imports 287,000,000*l.*; exports, 360,000,000*l.*; total, 663,000,000*l.*

The feature of our 1909 imports was the remarkable increases in the values of raw materials and of food. Thus raw cotton imports in 1907 were 21,311,617 cwt., valued at 70,458,197*l.*; in 1908 there was three million cwt.



## IMPORTS.

	Food, Drink, and Tobacco		Raw and Partly Manufactured Materials		Manufactured Articles		Miscellaneous (including Parcel Post)		Monthly Totals		
	1908	1909	1908	1909	1908	1909	1908	1909	1908	1909	Increase or Decrease
	£	£	£	£	£	£	£	£	£	£	£
January ...	19,948,555	19,172,324	24,969,482	23,067,536	11,273,668	11,014,219	171,674	264,280	56,363,379	53,511,359	- 2,852,020
February...	18,715,617	17,240,230	20,999,261	21,628,416	12,467,085	11,339,819	246,179	199,732	52,428,122	50,468,157	- 1,959,965
March ...	22,050,127	21,239,279	16,735,795	17,689,927	13,153,223	12,946,452	175,232	158,405	52,115,379	52,034,063	- 81,316
April ...	19,672,332	21,740,633	14,637,231	15,786,837	12,623,824	11,491,306	161,274	173,172	47,094,711	49,193,978	+ 2,099,267
May ...	18,247,770	17,420,170	14,195,000	15,221,754	11,655,402	11,924,806	160,143	184,356	44,258,315	44,851,085	+ 592,771
June ...	19,775,598	22,615,206	14,699,504	15,853,355	11,487,048	13,043,542	173,169	209,179	46,135,319	51,721,282	+ 5,585,963
July ...	20,160,032	22,032,330	14,382,569	15,510,591	12,010,288	12,000,008	216,206	273,659	46,739,015	50,316,588	+ 3,577,573
August ...	18,364,840	21,937,932	12,867,944	14,016,472	11,336,105	12,236,698	170,817	212,110	42,739,706	48,410,212	+ 5,670,506
September...	22,384,796	22,735,897	13,225,909	13,815,705	12,008,664	12,687,323	195,233	234,416	48,014,655	49,473,546	+ 1,458,891
October ...	22,135,194	21,374,260	16,406,484	18,673,651	12,014,159	12,416,642	190,442	187,193	50,745,279	52,651,755	+ 1,905,477
November ...	21,442,921	23,596,000	17,158,542	24,650,542	11,103,077	13,151,938	199,937	206,682	49,904,477	61,605,222	+11,700,745
December ...	21,604,894	23,411,992	23,210,023	24,245,251	11,791,570	12,871,293	291,497	257,347	56,825,954	60,785,683	+ 3,959,729
Total ...	244,134,089	254,333,623	203,455,017	220,153,047	143,085,597	147,684,111	2,278,784	2,569,731	592,953,487	624,740,517	+31,787,030

## EXPORTS.

	Food, Drink, and Tobacco		Raw and Partly Manufactured Materials		Manufactured Articles		Miscellaneous (including Parcel Post)		Monthly Totals		
	1908	1909	1908	1909	1908	1909	1908	1909	1908	1909	Increase or Decrease
	£	£	£	£	£	£	£	£	£	£	£
January ...	1,511,728	1,461,395	4,237,740	3,689,676	28,151,235	22,943,357	507,064	703,618	34,407,767	28,803,046	- 5,604,721
February...	1,448,861	1,522,963	4,172,478	3,620,339	25,875,841	22,425,628	452,694	455,522	31,949,514	28,624,452	- 3,325,062
March ...	1,476,802	1,751,071	4,210,684	4,165,737	23,823,927	25,417,755	399,347	537,110	32,910,760	31,904,673	- 1,006,087
April ...	1,471,890	1,618,856	4,198,963	3,940,679	24,535,748	22,984,486	498,747	414,437	30,705,338	23,958,458	- 6,746,880
May ...	1,619,816	1,726,150	4,731,977	4,449,813	24,242,470	22,876,779	472,614	473,004	31,066,977	29,257,746	- 1,809,231
June ...	1,592,585	1,845,156	4,091,505	4,158,549	22,653,637	21,226,336	415,352	487,934	28,953,129	27,717,975	- 1,235,154
July ...	2,060,078	2,228,644	4,769,735	4,452,823	26,423,936	23,225,790	451,976	581,983	33,765,725	35,487,240	+ 1,721,515
August ...	2,152,394	2,129,927	4,306,535	4,118,600	23,339,250	25,440,561	544,497	425,612	30,342,676	32,114,700	+ 1,772,024
September...	2,038,167	2,330,014	4,373,170	4,426,949	21,734,250	25,493,212	475,619	545,849	31,621,206	32,801,024	+ 1,179,818
October ...	2,287,788	2,380,337	4,785,799	4,631,276	25,357,881	26,282,008	576,138	638,557	33,007,583	33,321,473	+ 313,890
November ...	2,293,942	2,562,681	4,195,340	4,576,855	22,184,318	25,520,801	473,915	661,138	29,147,415	33,321,455	+ 4,174,040
December ...	1,989,320	2,069,984	4,312,696	4,551,567	22,538,894	26,431,015	560,667	737,331	29,401,576	33,789,897	+ 4,388,321
Total ...	21,937,651	23,627,458	52,382,499	50,732,779	296,955,416	297,303,812	5,828,258	6,665,395	377,103,824	378,379,444	+ 1,275,620

## RE-EXPORTS.

	Food, Drink, and Tobacco		Raw and Partly Manufactured Materials		Manufactured Articles		Miscellaneous (including Parcel Post)		Monthly Totals		
	1908	1909	1908	1909	1908	1909	1908	1909	1908	1909	Increase or Decrease
	£	£	£	£	£	£	£	£	£	£	£
January ...	752,322	906,496	3,892,546	3,682,280	1,936,111	2,083,026	18,230	10,750	6,599,209	6,687,551	+ 88,342
February...	823,633	920,477	4,627,189	5,334,109	2,039,512	2,214,519	7,339	4,549	7,497,673	8,473,634	+ 975,961
March ...	874,167	1,119,975	3,228,658	4,354,395	1,852,835	2,037,914	9,595	18,035	5,965,255	7,774,319	+ 1,809,064
April ...	797,359	1,105,564	4,218,211	5,673,619	1,753,043	1,834,386	4,615	15,437	6,773,228	8,631,006	+ 1,857,778
May ...	1,016,822	962,363	3,375,155	4,275,510	2,034,394	1,997,302	5,283	16,073	6,431,654	7,251,248	+ 819,594
June ...	753,541	957,926	3,467,807	4,895,593	1,801,472	2,100,559	6,492	11,557	6,023,312	7,956,605	+ 1,933,293
July ...	1,072,321	993,612	3,186,850	4,097,906	2,023,821	2,236,799	27,936	45,914	6,310,998	7,374,231	+ 1,063,233
August ...	807,292	858,401	4,107,707	4,152,330	1,876,996	1,933,774	27,712	45,554	6,819,707	6,993,159	+ 173,452
September...	922,278	970,653	2,526,915	3,375,832	1,814,257	2,091,013	24,364	26,645	5,287,814	6,464,143	+ 1,176,329
October ...	1,075,952	1,101,186	4,098,629	4,446,285	1,890,308	1,919,032	17,181	34,550	7,082,073	7,601,053	+ 518,980
November ...	1,017,133	1,037,469	3,536,890	3,753,325	2,110,004	1,928,578	18,161	32,518	6,682,193	6,751,890	+ 69,697
December ...	965,892	1,065,897	5,050,153	6,244,048	2,158,099	2,312,968	12,382	12,008	8,186,526	9,634,921	+ 1,448,395
Total ...	10,879,356	11,999,803	45,310,088	54,337,151	23,254,963	24,694,951	179,290	273,560	79,623,697	91,365,465	+11,741,768



less for 15,000,000*l.* less money; while in 1909 19,542,573 cwt. was imported for 60,295,201*l.*, an advance in quantity and value over 1908. The chemical, etc., trade of the year was improved, as the following table shows:

*Chemicals, Drugs, Dyes, and Colours.*

	Imports		British Exports		Re-exports	
	1908	1909	1908	1909	1908	1909
Jan. ...	£ 821,719	£ 740,£27	£ 1,462,528	£ 1,317,332	£ 149,401	£ 149,727
Feb. ...	834,511	777,£60	1,466,629	1,242,708	136,341	152,150
Mar. ...	937,734	984,208	1,703,107	1,653,179	131,£30	165,£63
April ...	890,436	901,029	1,525,245	1,432,532	136,464	155,708
May ...	843,712	834,590	1,460,103	1,453,274	175,916	160,949
June ...	803,470	881,420	1,088,781	1,229,141	113,544	161,775
July ...	829,876	931,589	1,251,084	1,373,362	144,799	159,076
Aug. ...	826,060	835,547	1,144,790	1,279,425	148,922	140,081
Sept. ...	809,898	869,545	1,208,648	1,333,699	125,449	126,424
Oct. ...	855,918	930,385	1,424,079	1,499,180	181,837	154,318
Nov. ...	871,007	988,880	1,260,£79	1,486,097	186,745	152,066
Dec. ...	875,226	928,601	1,293,282	1,507,394	153,752	145,205
Total	10,185,617	10,605,181	16,271,059	16,807,323	1,784,454	1,831,587
Ine. or } Dec. }	+ £419,564		+ £536,234		+ £47,133	

We have also compiled a table in which the imports and exports of chemicals, medicines, etc., as scheduled by the Board of Trade are set forth according to quantities, except in the few cases where values only are given, the figures for re-exports being given in italics under the figures for exports (British):

*Chemicals, Drugs, Dyes, and Colours.*

	Imports		Exports (British) and Re-exports	
	1908	1909	1908	1909
Bleaching materials..... cwt.	142,879	111,049	790,090	911,745
Boron compounds .....	382,376	331,864	—	—
Brimstone .....	385,442	417,509	—	—
Coal products (not dyes) ... £	70,221	94,504	1,542,272	1,456,210
Cream of tartar .....	68,721	70,928	2,101	3,217
Glycerin, crude .....	51,815	51,959	709	619
„ distilled .....	3,668	10,045	6,681	8,500
Ammonia muriate .....	4,833	5,149	77,202	116,934
Saltpetre .....	234,504	210,711	11,870	15,533
Soda compounds .....	270,725	213,751	79,524	84,203
Sulphuric acid .....	68,545	74,246	151	40
Tartaric acid .....	35,095	37,202	83,449	131,889
Unenumerated chemicals...£	2,169,542	2,319,445	53	474
Peruvian bark .....	17,219	21,645	4,561	6,925
Quinine and quinine salts, oz.	1,480,641	2,720,185	4,632,752	5,403,120
Unenumerated drugs and medicines .....	1,016,150	1,082,666	100,487	144,864
Dye stuffs (all kinds).....	3,628,186	4,227,489	81	17
Painters' colours .....	1,922,429	2,072,841	5,900	6,935
Copper sulphate..... tons	—	—	3,194	2,16
Manures, chemical..... £	—	—	2,840,101	3,007,409
Quicksilver..... lb.	3,270,412	3,237,321	52,529	566,122
Gum arabic..... cwt.	63,786	84,770	6,756	7,440
Lae-shell, &c. ....	135,725	135,144	826,156	1,301,338
Soap, toilet .....	17,049	13,108	103,153	211,627

In value chemicals, drugs, etc., imports increased by 419,500*l.*, the totals for the three years being:

1907	1908	1909
£	£	£
11,629,978	10,185,617	10,605,181

The bulk of these imports was in raw material. First, it may be noted that the Continental supply of bleaching materials and soda compounds has fallen away by 31,830 cwt. and 56,574 cwt. respectively, but as compared with two years ago the decline is still greater. The imports of foreign tartaric acid increased to 37,202 cwt., in spite of the reported falling-off in consumption, and glycerin was fully maintained at 62,000 cwt. (mostly crude). Sulphuric acid was imported in larger quantities, but boron compounds and saltpetre are on the down grade.

Unenumerated chemicals (including acetate of lime, acetic acid, acetone, calcium carbide, etc.) and unenumerated drugs have improved. The feature under this section is the increase of quinine by 1,239,544 oz. more, a feature all the more remarkable as the increase cost only 33,375*l.*, the declared value working out at 7½*d.* per oz. Although imports of shellac were practically the same as last year, 135,144 cwt. against 135,725 cwt., the values declined from 763,078*l.* to 493,817*l.* Toilet-soap imports fell 25 per cent. Our export trade is beginning to recover from the sharp reaction which took place in 1908. The tide in exports of home products turned in June, that and every month since showing better business; in fact, these seven months show over 1,000,000*l.* more business than the corresponding period of 1908. The values are only 245,000*l.* less than in 1907, and are particularly gratifying, especially that section dealing with drugs and medicines, the figures being as follows:

	1907	1908	1909
£	£	£	£
Quinine ...	52,999	37,555	55,058
Medicines ...	1,682,120	1,503,317	1,663,085
	1,735,119	1,543,872	1,718,143

The year's exports of British quinine were 1,301,338 oz., or 479,182 oz. more, and of quinine declared as "foreign" 211,627 oz. were exported, or 108,434 oz. more, results testifying to increased consumption abroad. In other respects chemical-manufacturers, judging from the quantities exported, have had a very profitable year. Bleaching materials, soda compounds, sulphuric acid, miscellaneous chemicals, painters' colours, glycerin, ammonium sulphate and muriate, tartaric acid all show an expansion, while the few articles in which business has declined include anthracene, carbolic acid, naphtha, cream of tartar, and copper sulphate. The revival of U.S.A. trade has materially helped matters in the chemical industry.

As showing the enormous proportions the rubber industry has attained, we note imports of 14,137,504*l.*, or 700,062 cwt., which compares with 8,370,905*l.* or 575,066 cwt. in 1908. The re-exports are valued at 9,118,084*l.*, or three and three-quarter millions more. There has been no "drain of gold" in connection with our overseas trade, for in the course of the year we imported 66,506,718*l.* and exported 60,034,718*l.* only. Gold and silver imports were 10,000,000*l.* more than in 1908, and the exports were in round figures 3,250,000*l.* less. Taking 1909 as a whole, the figures show that the country has recovered from the depression which set in with the collapse of industry in the United States in 1907, and the revival of the last two months is a plain indication that we are now moving in the right direction.



### The "Chemical News" Jubilee.

Our congratulations to Sir William Crookes, F.R.S., who has concluded fifty years' editorship of the "Chemical News"—a unique record in British journalism and science. The fifty-first year of the "News" commenced this month, Sir William Crookes having started it from the ashes of the "Chemical Gazette." Splendid service has been done to chemistry by Sir William in his journal, especially in regard to the exposition of "views" which have been heterodox, and the work of chemists who have been considered faddist or philistine by their contemporaries; in short, the "News" has been to chemistry what the *C. & D.* has been to pharmacy—a fair field.

### Great Men of Science.

The Berlin correspondent of the "Westminster Gazette" gives some particulars of a book by Professor Wilhelm Ostwald, the distinguished chemist, in which he dissects the lives and family history of all the great men of science of modern times, and deduces the general laws under which they attained greatness. He denies that genius or great talent is hereditary, and asserts that the birth of a scientific genius is an accident of Nature. Nearly all great men of science spring from the middle classes, the three notable exceptions—Cavendish, Boyle, and Lord Rayleigh—being Englishmen. They very rarely spring from the working classes; and from this Dr. Ostwald concludes that it is necessary for a great man of research to start from a certain cultural level; otherwise he would have to waste too much energy on the attainment of preliminary knowledge. The argument that great men of research are born, not made, is supported by the fact that most great scientists have shown their particular bent of genius at an early age, and many have made their most important discoveries while quite young—for example, Newton, Linnæus, Helmholtz, and J. R. Meyer. Professor Ostwald divides all men of science into classicists and romanticists; the former working with the greatest pain at the completion of and proof of each discovery before making use of it, whereas the "romanticist," impelled by too great a rush of ideas, is inclined to publish his ideas too soon. Helmholtz and Gauss are given as instances of classicists, and Liebig as a romanticist. The best teachers of science always belonged to the romantic school.

### Poison-bottles.

The "Daily Mail" of January 7 published opinions regarding the necessity for a poison-bottle of distinctive shape and colour. The inquiry arose out of a doctor's fatal dispensing error recorded in our issue of January 8, p. 35. The "Mail" prefaced the opinions by stating that it "has often urged that there should be bottles of distinctive colour and shape for all poisons":

Mr. J. F. Harrington, President of the Pharmaceutical Society, stated that—

Amber, blue, and green bottles are at present used. To make them distinctive to the touch they are either octagonal or fluted. So many precautions are now taken by dispensing chemists, such as placing poison-bottles in a special place and having all uses of them checked, that any possibility of error seems already obviated. But it would make the possibility of any mistake even more remote were it definitely laid down that one unmistakable bottle should be employed universally for all poisons.

The following Coroners express agreement as to the need of legislation for providing "a distinctive poison-bottle": Mr. Luxmore Drew (Fulham), Dr. W. B. Gordon Hogg (West Middlesex), Mr. H. R. Oswald (South-East London), Dr. T. J. Carson (Oldham), Mr. T. E. Sampon (Liverpool), and Mr. H. G. Doggett (Bristol). Mr. G. P. Wyatt, Coroner South London, telegraphed:

Legislation utterly useless. Accidents generally happen from poison being put into wrong bottle.

Mr. A. M. M. Forbes (South-East London Coroner) suggested

the use of a distinctive label for poison-bottles. Mr. Wynn Westcott (Coroner for North-East London) said:

The Legislature has already approved of poison regulations as to bottles. According to the rules approved by the Privy Council, poisons must be kept either (1) in bottles specially fastened, or (2) bottles specially made in shape so as to be recognised by the feel, (3) or be kept in a special box or cupboard away from ordinary non-poisonous drugs. No further restrictions seem practicable to me.

Poison-bottles of very distinctive characters have been on the market and in use among pharmacists for many years. Legislation already provides that bottles rendered distinguishable to touch must be used in dispensing poisonous applications and fluid disinfectants. Further, retail vendors must keep poisons under strict storage regulations designed to prevent errors. It would be difficult to choose a poison-bottle for universal use, as the one most advantageous for supply to the public is not necessarily that best adapted for use in the dispensary. Our contemporary and the Coroners ignore the essential fact that physicians are exempt from the above provisions. Ignorance of the existing law is apparent.

### Failures in 1909.

There were fewer failures in the United Kingdom during 1909 than in 1908. "Kemp's Mercantile Gazette" gives the total as 9,389, compared with 10,196 in 1908—i.e., bankruptcies and deeds of arrangements. In England and Wales the failures in the chemist and druggist class were exceptionally heavy—viz., eighty bankruptcies, against sixty-four in 1908, and sixty-eight deeds, against fifty-eight in 1908. The "Gazette" means by "chemists and druggists" all who are in any way connected with the drug-trade, including dentists, doctors, and even dry-salters, so that the figures are not a true criterion of the condition of pharmacy. For the United Kingdom the totals are 170 in 1909, 150 in 1908, 129 in 1907, 162 in 1906, and 147 in 1905; so that last year was the worst of the five. The drapery trade showed a slight improvement (1,174 against 1,257), and the grocery trade was worse (2,251 against 2,239). As to this the "Gazette" remarks:

"One would have expected that improvement would be shown in the grocery and provision trades before it reached the drapers. But there may be other causes at work besides that of there being more money about to spend; and, indeed, it is believed that in grocery and provision lines the profits have been so cut down by the selling of numerous proprietary and largely advertised articles of consumption that it is harder than ever successfully to make a living by old-fashioned methods of business in these trades."

The latter is, we believe, the true explanation; the small men are going to the wall. Out of fourteen deeds of arrangement reported by the "Grocer" one week two only were in four figures, and seven were for sums under 500*l.* and five were for sums over 600*l.* Mr. Richard Seyd, F.S.S., has sent us his statistics since the foregoing was "set up," and the following additional facts are culled from his valuable statement. In the wholesale drug trade there were three bankruptcies and ten arrangements in 1909 (the same total as in 1908), and in the retail trade 26 and 39, a total of 65, compared with 69 in 1908. Of dry-salters and oilmen 21 wholesale failed and 36 retail. Surgeons, physicians, and dentists to the number of 65 failed, 52 of these being bankruptcies—numbers greatly in excess of the previous two years.

### New Book.

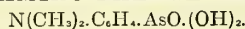
*The Science Year-book. Diary and Scientific Summary.* 1910. 9½×5½. Pp. 112+diary pages. 5s. net. (King, Sell & Olding, Ltd., London.) [The literary contents give useful information (chiefly tables) under the headings of astronomy, the earth, physical and chemical notes, and metrology. A glossary of new technical terms and a directory of periodicals, societies, awards, and abbreviations are included. A diary page is provided for each day of the year, also letter-book and cash account. A short index completes the work.]



## Organic Arsenic Compounds.\*

By W. Harrison Martindale, Ph.D., Marburg.

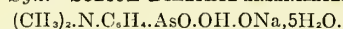
### DIMETHYL-AMINO-PHENYL-ARSONIC ACID.



*p*-dimethylaminophenyl arsonic acid<sup>49</sup> (previously described by Michaelis and V. Bruder, "Ann." 320, 295) is made by oxidising dimethyl-anilin-arsenious oxide,  $(\text{CH}_3)_2\text{N} \cdot \text{C}_6\text{H}_4 \cdot \text{AsO}$ , with hydrogen peroxide in presence of alkali. Pour over 5 grams of the body in question 100 c.c. water and 20 c.c. of 15-per-cent. NaOH and then gradually 6 c.c. of 30-per-cent.  $\text{H}_2\text{O}_2$  and precipitate as soon as complete solution occurs with dilute acetic acid. Instead of isolating this dimethyl-anilin-arsenious oxide (see "Ann." 270, 139, for preparation) one can convert it direct: 15 grams dimethyl-anilin are mixed with 25 grams arsenious chloride and heated two hours on a water-bath, and poured into 300 to 400 c.c. cold water. The mixture dissolves in the water. Add sodium hydroxide in excess until the dimethyl-anilin-arsenious oxide at first thrown out redissolves (it goes milky at first). Shake out the dimethyl-anilin used in excess with petroleum ether and add hydrogen peroxide to the alkaline liquor. Dilute acetic acid throws out the body. (To ascertain whether sufficient hydrogen peroxide had been used a little liquor iodi was employed, causing chocolate precipitate showing excess of  $\text{H}_2\text{O}_2$ .)

### SODIUM DIMETHYLAMINOPHENYLARSONATE

Syn. SODIUM DIMETHYL-ARSANILATE.



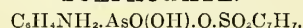
Sodium dimethyl-arsanilate crystallises in leaflets, is slightly soluble in cold water and in alcohol, more so in hot and in dilute acetic and mineral acids.

Analysis:

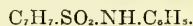
0.160 gram lost 0.039 gram = 24.375 per cent. (theory for  $5\text{H}_2\text{O} = 25.2$  per cent.).

0.100 gram dried required 6 c.c. uran. acet. = 0.03168 gram As = 31.68 per cent. (theory 28.09 per cent.).

### *p*-AMINO-PHENYL-ARSONIC-TOLUENE-SULPHONATE.



This body is a new compound prepared by the Schotten and Baumann reaction by condensing para-toluene sulphone-chloride,  $\text{C}_6\text{H}_4\text{SO}_2\text{Cl}$  (a by-product in sulphonating toluene), with sodium arsanilate. It would have the advantage of splitting up into a comparatively innocuous body in the system—



It is obtainable in a white crystalline condition soluble in hot water.

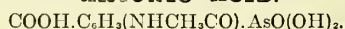
Analysis of the sodium salt of the body:

0.330 gram lost 0.08 gram.

0.245 gram of dried material required 10 c.c. uranium solution = 0.053 gram As = 21.6 per cent. As (theory 19.07 per cent.).

Trisodium arsenite reacting with *p*-toluene sulphone-chloride yields sodium toluene sulphinate and trisodium arsenate.<sup>50</sup> It has been suggested that the chloride first reacts with the alkali, forming sodium hydroperoxide, NaO.OH, which then oxidises the arsenite to arsenate.

### 1-CARBOXY-6-ACETAMINOPHENYL-3-ARSONIC ACID.



This has been made<sup>51</sup> by oxidising 6-acetamino-tolyl-3-arsonic acid in aqueous solution with potassium permanganate. White needles containing 1 molecule of water, melting-point about 230°. Hydrolised with alkali or acid yields 1-carboxy-6-aminophenyl-3-arsonic acid (anthranilarsinic acid),  $\text{COOH} \cdot \text{C}_6\text{H}_3(\text{NH}_2) \cdot \text{AsO}(\text{OH})_2$ , in needles, melting-point 245°, which may be diazotised and coupled with amines and phenol. An aqueous solution of the diazo-sulphate of

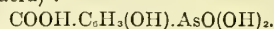
<sup>49</sup> *Berichte*, Michaelis XLI., '08, 1514.

<sup>50</sup> *Berichte*, 1909, 12, 480-483.

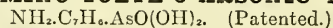
<sup>51</sup> Kahn and Benda, *Berichte*, '08, 41, 3859-3865.

\* Notes from the author's communication to the International Congress of Applied Chemistry, with recent additions, supplementing other portions published in the *C. & D.*, July 3 and 24 and September 18, 1909.

this body yields 1-carboxy-6-hydroxyphenyl-3-arsonic acid (salicylarsonic acid):



### 2-AMINO-TOLYL-5-ARSONIC ACID.

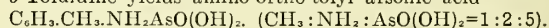


2-amino-tolyl-5-arsonic acid forms a sodium salt,  $\text{C}_6\text{H}_3\text{O}_3\text{NAsNa}$ , in colourless crystals. It may be acetylated, forming the body  $\text{NHAc} \cdot \text{C}_6\text{H}_4 \cdot \text{AsO}(\text{OH})_2$ . This is oxidisable with alkaline permanganate into 2-acetyl-amino-1-carboxyphenyl-5-arsonic acid,  $\text{NHAc} \cdot \text{C}_6\text{H}_3(\text{COOH}) \cdot \text{AsO}(\text{OH})_2$ . On diazotising, this substance is converted into 2-hydroxy-1-carboxyphenyl-5-arsonic acid,  $\text{OH} \cdot \text{C}_6\text{H}_3(\text{COOH}) \cdot \text{AsO}(\text{OH})_2$ , in colourless needles.

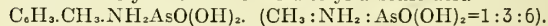
To produce the 2-amino-tolyl-5-arsonic acid 23 parts of arsenic oxide and 130 parts ortho-toluidine (i.e., about ten times as much toluidine as is required) may be heated together. There is some spontaneous heat evolution before solution is effected.

A patent has been taken out (No. 14937 of 1908) for the manufacture of these homologues of arsanilic acid. Aromatic amines in which the para-position to the  $\text{NH}_2$  group is vacant—namely, ortho-toluidine, meta-toluidine, and paraxylidine—on heating with arsenic acid, the base being in excess, yield the homologues of arsanilic acid.

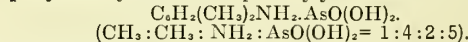
*o*-Toluidine yields amino-ortho-tolyl arsonic acid—



*m*-Toluidine yields amino-meta-tolyl arsonic acid—



*p*-Xylidine yields amino-para-xylil arsonic acid—



The sodium salts sodium 2-amino-tolyl-5-arsonate, stated to contain  $3\frac{1}{2}\text{H}_2\text{O}$ , and sodium 2-acetyl-amino-tolyl-5-arsonate ( $+7\text{H}_2\text{O}$ ) have been examined<sup>52</sup> physiologically; the latter has much less toxicity than sodium *p*-amino-phenyl arsonate. They have proved efficacious in syphilis.

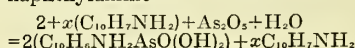
In addition bisamino-aryl-arsenic acids corresponding to the *p*-amino-phenyl-arsonic—i.e.,  $(\text{C}_6\text{H}_4 \cdot \text{NH}_2)_2 \cdot \text{AsO}(\text{OH})$ , and the 2-amino-tolyl-5-arsonic acids have been produced. They, however, were found to contain too low an arsenic content to make them of value in trypanosomiasis.

Quite recently Dr. Morgan and Miss Micklethwaite have prepared ("Trans. Chem. Soc.," 1909, vol. 95, p. 1473) a condensation-product containing three aniline residues attached to arsenic—e.g., Triamino triphenylarsine oxide,  $\text{O} : \text{As}(\text{C}_6\text{H}_5 \cdot \text{NH}_2)_3$ , and its derivatives.

### AMINO-NAPHTHYL-ARSONIC ACID.<sup>53</sup>



Is prepared on lines corresponding with arsanilic acid by heating  $\alpha$ -naphthylamine with naphthylamine arsenate at 200° C.; in other words, heating arsenic acid with an excess of  $\alpha$ -naphthylamine—

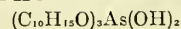


Naphthylamine 230 parts with arsenic acid 23 parts and water sufficient to dissolve were heated to 200° for two hours and treated with sodium hydroxide in the customary manner, passing through the acid stage to purify. The salt was ultimately obtained in pinkish-coloured crystals.

### DICAMPHORYL-ARSINIC ACID.

Quite recently Dr. Morgan<sup>54</sup> and Miss Micklethwaite have described this body, made by condensation of arsenious chloride with sodium camphor in dry toluene, a monobasic acid of formula  $\text{C}_{20}\text{H}_{30}\text{O}_4\text{AsH}$  being ultimately obtained—i.e.,  $(\text{C}_{10}\text{H}_{15}\text{O})_2 \cdot \text{AsO}(\text{OH})$ —almost insoluble in water, readily in benzene, chloroform, etc. The alkali salts are, however, extremely soluble. I have repeated these experiments.

### TRICAMPHORYL-ARSINIC ACID.



has also been made ("Trans. Chem. Soc.," 1909, vol. 95, p. 1476). It is a brown viscid substance, melting at 130°. Note that this is not exactly comparable with the dicamphor body—indeed it is neither an arsonic nor arsinic acid.

<sup>52</sup> *J.C.S. Trans.*, July '08, 1180; *ibid.* Nov. '08, 1893.

<sup>53</sup> O. and R. Adler, *Berichte* '08, 41, 931.

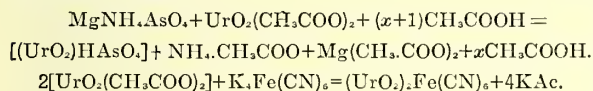
<sup>54</sup> *J.C.S. Trans.* Dec. '08, 2144.



## ESTIMATION OF ARSENIC IN ORGANIC SUBSTANCES.

I have frequently employed (i.) the method of Monthulé<sup>55</sup> for this purpose—i.e., by treating the substance with a solution containing magnesium oxide 10 grams in nitric acid sp. gr. 1.38 g.s. to 100 c.c. On evaporating to dryness and incinerating at a red heat, one dissolves the residue in dilute hydrochloric acid and precipitates the arsenic as magnesium ammonium arsenate by adding ammonia. There is a slight difficulty here in washing the ammonium magnesium arsenate. The precipitate does not settle down in a crystalline condition as one would wish. It has been pointed out<sup>56</sup> that precipitation of magnesium arsenate may yield results too high owing to formation of the salt  $Mg(NH_4)(AsO_3)_2$ , yielding meta-arsenate,  $Mg(AsO_3)_2$ , on ignition. Again, there may be some reduction on ignition, and, finally, there is the difficulty of the solubility of the ammon-magnesium arsenate; so the whole method is by no means an ideal one. (ii.) Another process is to fuse the sample with sodium peroxide, and proceed otherwise as above. (iii.) A third method is a volumetric process with uranium acetate after fusing with magnesium nitrate as above. As a matter of fact, it is necessary, if using a gravimetric process, to titrate the filtrate for the salt left behind in solution and add the result to the gravimetric figure.

**Uranium Acetate Titration of Arsenic.**—Uranium acetate solution made with 31 to 32 grams per 1,000 c.c., standardised so that 1 c.c.=0.0053 gram arsenic, is run in in the usual manner.



The end reaction is fairly definite.

Another and indeed simpler method of procedure I devised—i.e., powdering the organic substance carefully, mixing with about equal quantity of potassium nitrate, moistening with water, and then oxidising with nitric acid—taking up the dried material with acetic acid, adding sodium acetate solution, and titrating with standard uranium acetate solution 1 c.c.=0.0053 gram arsenic. For example, 0.464 gram "arsamin" required 20.2 c.c. uranium solution =0.10706 gram arsenic=23.0 per cent. (theory with  $\frac{1}{2}H_2O=23.4$  per cent.).

Since communication of this paper Little, Cohen, and Morgan ("Trans. Chem. Soc.," 1909, Vol. 95, p. 1478) employ sodium-peroxide fusion (using an equal quantity of sodium carbonate in addition): from 10 to 15 grams of each for 0.2 to 0.3 gram of the arsenic body. 25 to 31 c.c. sulphuric acid diluted 1:1 is added to the aqueous extract of the residue after ignition, and 1 gram potassium iodide and the liquid concentrated to 4.0 c.c. A little sulphurous acid is added to destroy the last traces of iodine and the solution diluted and salinated with  $H_2S$ . The sulphide is dissolved in soda and oxidised with  $H_2O_2$  (30 c.c.). Sulphuric acid q.s. is added, so as to have 5 c.c. excess. 1 gram potassium iodide is added and the liquor concentrated to 40 c.c., decolorised by a drop or two of sulphurous acid, neutralised with soda, and rendered just acid with sulphuric acid. The arsenite solution is finally titrated with iodine in the presence of sodium phosphate (which is stated to be preferable to bicarbonate, usually employed).

In spite of the somewhat tedious procedure the authors have obtained some remarkably concordant results with a variety of organic arsenic bodies.

The very latest communication on the subject of organic arsenic is that of Colonel Lambkin, reported in "The Lancet" (January 1, 1910, p. 23). Having previously found that no marked untoward effects were produced by giving an arylarsonate and mercurial injections simultaneously, he has lately been employing mercury atoxylate, and reports success in thirty cases. The dose intramuscularly (not subcutaneously) of a suspension of strength 1 drachm in 9 drachms of oily vehicle is as follows:

	First injection	7 minims	=	$\frac{3}{4}$ grain
After 3 days	second	" 7 "	"	"
" 7 "	third	" 12 "	"	$1\frac{1}{2}$ "
" 7 "	fourth	" 12 "	"	$1\frac{1}{2}$ "

After eight injections have been given there is a rest of one month, and then a repeat. No toxic symptoms have been seen. All cases seem to derive benefit.

## Practical Notes and Formulae.

## Elixir of Terpin Hydrate.

Terpin hydrate	...	...	...	384 grains
Spirit of bitter almond	...	...	...	30 minims
Compound spirit of orange	...	...	...	45 minims
Glycerin	...	...	...	1 oz.
Water	...	...	...	3 oz.
Syrup of wild cherry	...	...	...	6 oz.
Alcohol, to make	...	...	...	48 oz.

This formula is stated to have been in use some years, and to have given entire satisfaction.

## Unguentum Iodi Denigrescens.

## STAINLESS IODINE OINTMENT.

Iodine	...	...	1 oz.	10 gm.
Soft paraffin	...	...	19 oz.	190 gm.

Finely powder the iodine, heat the paraffin until liquefied, then add the powdered iodine, continuing a gentle heat and stirring until fully combined, then remove from heat and stir until it congeals.—*Canadian Formulary.*

## Cataplasma Kaolini.

## CATAPLASM OF KAOLIN.

Kaolin, in very fine powder	...	11½ oz.	577.0 gm.
Boric acid, in very fine powder	...	395 grains	45.0 gm.
Thymol	...	5 grains	0.5 gm.
Methyl salicylate (synthetic oil of wintergreen)	...	20 grains	2.0 gm.
Oil of peppermint	...	5 grains	0.5 gm.
Glycerin	...	7½ fl. oz.	375.0 gm.

Heat the kaolin in a suitable vessel at 212° F. with occasional stirring for one hour. Heat the glycerin at the same temperature for five minutes and dissolve the boric acid in it, then incorporate the hot kaolin with this liquid. Dissolve the thymol in the methyl salicylate and the oil of peppermint and mix with the above to form a homogeneous mass. The product should be kept in airtight containers.—*Canadian Formulary.*

## Cream of Camphor,

The following formula for this preparation has been suggested for inclusion in the "National Formulary":

Castile soap	...	...	120 grains
Ammonium carbonate, clear pieces	...	...	120 grains
Powdered camphor	...	...	120 grains
Oil of thyme	...	...	1 drachm
Oil of turpentine	...	...	2 oz.
Tincture of opium	...	...	2 drachms
Water, to make	...	...	1 pint

Dissolve the soap and the ammonium carbonate in 10 fl. oz. of water, and introduce the solution into a pint bottle. Dissolve the camphor in the mixed oils, and add this to the soap solution, shaking the bottle vigorously until an emulsion is formed. Finally add the tincture of opium and water to make 1 pint.

## Elixir Pepsini Compositum.

## COMPOUND ELIXIR OF PEPSIN.

## Elixir of Digested Ferments. Elixir of Lactated Pepsin.

Pepsin	...	...	175 grains	10.0 gm.
Pancreatin	...	...	17½ grains	1.0 gm.
Diastase	...	...	17½ grains	1.0 gm.
Lactic acid	...	...	30 minims	1.5 c.c.
Hydrochloric acid	...	...	60 minims	3.0 c.c.
Glycerin	...	...	5 fl. oz.	125.0 c.c.
Distilled water	...	...	10 fl. oz.	250.0 c.c.
Tincture of cudbear	...	...	5 fl. oz.	125.0 c.c.
Purified talcum	...	...	1 av. oz.	30.0 gm.
Aromatic elixir to make	...	...	40 fl. oz.	1,000.0 c.c.

Mix the acids with the glycerin and water, add the pepsin, pancreatin, and diastase to this mixture, and macerate with occasional agitation until solution is apparently effected, then add the tincture of cudbear and enough aromatic elixir to make 40 fl. oz. (1,000 c.c.). Incorporate the talcum thoroughly with the mixture and filter.—*Canadian Formulary.*

**SMUGGLING HASHISH.**—Lieut. Quartermaster Werndley, Staff Quartermaster-Sergeant Eyles, Company Sergeant-Major Hayes, and Staff-Sergeant Martin, of the Army Service Corps, and Sergeant Chitham, of the Army Ordnance Department, have been ordered by the War Office to return from Malta to England for discharge on account of being implicated in smuggling hashish (*C. & D.*, 1909, I., 482).

<sup>55</sup> *Ann. Chim. Anal.* 1904, 9, 308-309.

<sup>56</sup> *J. C. S. Abs.* ii, April '09, 347.

<sup>57</sup> Francis and Brickdale, *Chemical Basis of Pharmacology.*



## Winter Session.

### Brief Records.

**Dundee Chemists' Assistants' and Apprentices' Association.**—A meeting was held in Mather's Hotel on Friday, January 7, at 9.15 P.M., Mr. James Adamson presiding. A paper on "The Manufacture of Oil and Paraffin" was read by Mr. James Stark, who described in a very interesting manner the various processes, illustrating his remarks with diagrams. A discussion followed, and Mr. Stark was heartily thanked for his paper.

**Keighley Chemists' Association.**—A meeting was held on January 6, Mr. W. Eckroyd (President) in the chair, at which Mr. A. S. Dean gave a lantern lecture on "Rome." Mr. Dean dealt with his subject in a very interesting manner, and many of the pictures were from photographs the lecturer took recently during a stay in the city. Votes of thanks to Mr. Dean and Mr. Gill, who had charge of the lantern, terminated the proceedings.

**Great Yarmouth Pharmaceutical Association.**—A meeting was held at 156 King Street, Yarmouth, on Thursday, January 6, at 8 P.M. The President (Mr. J. S. Shearman) was in the chair, and Messrs. Harvey-Palmer, W. G. Poll, C. E. Williams, T. J. Woodcock, A. R. Davies, and A. E. Richmond were also present. It was decided to write to the local candidates for Parliamentary honours asking whether they would, if elected, support a Bill to amend the pharmacy law *re* sale of poisons by unqualified vendors and to secure better protection of the title.

**Association of Women Pharmacists.**—A meeting was held on January 6 at Gordon Hall, Gordon Square, W.C. Among those present were Miss Buchanan (in the chair), Mrs. Clarke-Keer, Mrs. Freke, Mrs. Proctor, Miss Hooper, Miss Bedell, Miss Borrowman, Miss Falconer, and Miss Wardle. Miss G. H. Wren gave a paper on "The Action of Reducing-agents in Photography." After treating of the three main processes involved in the production of a photograph—viz., exposure, development, and printing—Miss Wren gave much useful information on developing-solutions and the chemistry involved. A short discussion took place, followed by a vote of thanks to Miss Wren.

**Halifax Chemists' Association.**—The annual meeting was held on Tuesday evening, January 11, Mr. H. C. Brierley in the chair. Messrs. G. Dixon, C. Fielding, W. R. Fielding, W. Lamb, J. E. Binns, B. C. Hodgson, and R. V. Sutcliffe (Secretary) were also present. Mr. L. Chambers was elected a member. Officers and committee were elected as follows: President, Mr. W. R. Black; Vice-Presidents, Messrs. H. K. Woodward, J. E. Binns, and B. C. Hodgson; Treasurer, Mr. J. Swire; Secretary, Mr. R. V. Sutcliffe; committee, Messrs. H. C. Brierley, W. E. Smithies, G. Dixon, C. Fielding, and W. R. Fielding. Arrangements were made for the annual dinner on February 17.

**Dewsbury Chemists' Association.**—A meeting was held at the Church House, Dewsbury, on January 10, Mr. R. Broadhead (President) in the chair. There were also present Messrs. S. N. Pickard, Ossett; G. N. Gutteridge, R. Gledhill, J. Day, Dewsbury; A. B. Barker, Heckmondwike; J. Blakeley, Birstall; J. Mortimer, Batley; and G. Walker (Secretary), Dewsbury. On the suggestion of the North-East Lancashire Association, it was decided to interview local Parliamentary candidates in regard to obtaining restrictions on the use of the word "pharmacy" as a designation for the shop of an unqualified person, and limiting the granting of poison-licences where facilities for obtaining agri-horticultural poisons already exist. Messrs. Barker and Mallinson are to interview the Spen Valley candidates, Messrs. Day and Gutteridge the Dewsbury candidates, and Mr. Pickard the Morley candidates. Mr. Rhodes was appointed to represent the Association at the annual dinner of the Halifax Chemists' Association.

**Bradford Chemists' Association.**—A meeting was held on Tuesday evening at the Rawson Hotel, Mr. John Gordon (President) in the chair. Mr. J. C. Calvert read a paper, "Chemicals used in Horticulture and Agriculture." He spoke of nitrates, phosphates, and potash. Many questions were asked and answered, and much instructive information was given by Mr. Calvert.—Mr. M. Firth dealt with his endeavours to find a varnish equal to the one used on genuine Strad. violins. He has been carrying out experiments for many years, and has tried innumerable things, but he has not succeeded. He is firmly convinced, however, that the genuine varnish was produced in some way from natural turpentine.—The correspondence read included a letter from the North-East Lancashire Association, in which an intimation was conveyed that the mass meeting proposed to be arranged would be held in the course of a few weeks, and in the meantime the Association had addressed certain ques-

tions to the Parliamentary candidates in their district.—Mr. R. T. Silson (Hon. Secretary) reported that he had not sent any questions to the Bradford candidates, and it was understood that no questions would be submitted from the Bradford Association.—Mr. R. H. Jackson said he recently attended a meeting in support of the candidature of Sir Ernest Flower, at which the candidate had expressed the interesting opinion that he thought in any future rearrangement of Parliament a seat (*ex-officio*) in Parliament should be given to the President of the Pharmaceutical Society, as well as the chief officials of other influential organisations.—The members present said that was a most excellent idea if it were found possible to carry it into effect.—The National Chamber of Trade is to meet in Bradford this year, and Mr. Gordon was appointed to attend the Halifax dinner.

**National Union of Assistant Pharmacists.**—The annual meeting of the Bristol Branch was held on January 6, Mr. W. J. Findlay presiding. The following officers were elected: President, Mr. E. J. Sharpe; Vice-President, Mr. F. Brookes; Secretary, Mr. J. M. Dowty; Treasurer, Mr. T. M. Brown. Mr. R. J. G. Hughes, of Weston-super-Mare, was elected to represent the Weston members on the committee. It was agreed to nominate the following as office-bearers of the Union: President, Mr. F. G. Hines; Vice-President, Mr. J. A. Sharpe; Secretary, Mr. J. J. B. Waldron; Treasurer, Mr. J. M. Dowty; Executive Committee, Messrs. Findlay, Bottomley, C. T. Holloway, Bullen, Auger, Smith, and Francis. It was also agreed to submit the following recommendations for consideration at the annual meeting of the Union:

1. The scheme for the amelioration of the living-in system as suggested by this branch.
2. Inclusion of the unqualified in the N.U.A.P.
3. That the subscription to the Union be 5s., and that the branches should be self-supporting and not dependent on the Union.
4. To consider the division of the country into suitable districts to facilitate the work of organisation.
5. To set forth the policy which the Union's Pharmaceutical Council candidates must support.
6. To consider representative voting at future annual meetings.
7. That the annual meeting should not be in the same town year after year, but should be held in all the principal towns in turn.

Mr. E. S. Francis, Hon. General Secretary of the Union, writing on January 9, says: "Correspondence is coming in *re* the appointment of the officials and the Executive Committee, and there is the general feeling that every effort should be made to make the control this year representative of a national organisation. Some demand a postal vote of the entire membership, and threaten to withdraw if every one does not have a say in electing those at the helm. This could best be accomplished by each of the eight branches nominating one member for the Executive Committee and for each branch and individual members also to send in the names of persons to fill the places of the three retiring officers of the Union, the Vice-President, Treasurer, and General Secretary. The desirability of securing a postcard vote on the nominations from the entire membership will be laid before the meeting of the Executive to be held this month. The annual meeting could confirm these majority appointments, and this would leave more time to discuss the policy and activities of the Union and matters of importance affecting the craft."

### Society of Chemist-opticians.

A COUNCIL-MEETING of this Society was held at St. Bride Institute, London, E.C., on January 12, Mr. J. H. Hopper (Vice-President) in the chair. There were also present Mr. C. J. G. Bunker (Treasurer), Mr. Rex Blanchford, Mr. S. W. Woolley, and Mr. J. Harcombe Cuff (Hon. Secretary). The minutes of the last meeting were read and confirmed.

S.-M.C.—It was resolved to send a letter of thanks to the Spectacle-makers' Company for publishing a list of its diplomas in "The Daily Telegraph" of December 2.

ELECTIONS.—The following were elected: *Members*, Mr. T. Burrell (Montrose), Mr. F. B. Hirst (Batley), Mr. J. Harris (Exeter), Mr. E. H. Holden (Oldham), Mr. E. G. Inge (Mundsley-on-Sea), Mr. G. Michael (Fdinburgh), Mr. R. H. Nix (Harrogate), Mr. G. S. Perrett (Bristol), Mr. D. Reid (Exeter). *Assistant*, Mr. S. M. Hall (Hitchin).

### Manchester and North of England Optical Society.

A MEETING of this Society was held on January 5, at the Albion Hotel, Manchester, Mr. J. C. Kidd (President) in the chair.



**OPTICAL FEDERATION.**—Mr. Alf. Hershberg (Hon. Secretary) reported that he had written to the Secretaries of the various Optical Societies in the country with reference to a proposed Conference in Manchester, for the purpose of considering the question of establishing a federation of such Societies, the ultimate aim being to secure for qualified opticians a legal status. Four Societies have replied approving of the proposal, and intimating their intention to send delegates to the Manchester Conference. These Societies are the Northern Optological Society, Manchester; the West Riding Optical Society; the Northern Counties Optical Society; and the National Association of Goldsmiths. The Secretaries of other organisations have stated that the matter will be laid before the next meeting of members. The Scottish Optical Society has declined to join in the movement. The Chairman considered they were making satisfactory progress with the proposal.

**HOSPITAL SPECTACLES.**—The system in vogue for the supply of spectacles at the Manchester Royal Eye Hospital came up for consideration. It was stated that at present one firm of opticians has the monopoly of the work, and has a stall in the hospital building. It was suggested the Board of Management should be approached, through the Ratepayers' Association and public bodies subscribing out of public funds, to get an alteration in the system, by which it will be made clear to the patients that they may have their prescriptions dealt with in their own locality, and so give local opticians a chance of obtaining business for which they are qualified by training and experience. The discussion which ensued was adjourned, pending a reply from the Board of Management asking them to receive a deputation on the subject.

"METHOD IN THE TESTING-ROOM" was the title of a paper read by Mr. T. Beardsill. It consisted in suggesting some methodical order of employing the systems that are already well known. He said that, no matter how profound the optologist's knowledge of optics and sight-testing might be, unless that knowledge was used with some degree of methodical application, the end which he desired to attain would never be accomplished.

## Festivities.

### Three Towns Association of Pharmacists.

The numbers of the Junior Section having increased largely during the past two sessions, it was thought desirable to arrange a social evening for them. A small committee was appointed, with Mr. H. N. Andrews as Chairman and Mr. Cyril Condy U'Ren as Secretary. They arranged a very enjoyable evening on Wednesday, January 5, at Cornish's Restaurant, Union Street, Plymouth. After supper a musical programme was gone through to which Messrs. Spear, Roper, U'Ren, and several others contributed songs, a violin duet was given by Messrs. Pumphrey, and recitations by Messrs. Smith, Stott, and others. During the evening the President of the Association looked in, and at the close Mr. Andrews thanked those who had contributed. He added that during the summer a botanical excursion might be arranged.

### Newcastle Dinner.

The thirteenth annual dinner of the Newcastle-on-Tyne Pharmaceutical Association took place in the Hotel Metropole, Clayton Street, on January 12. There was a good attendance, presided over by Mr. W. Buckley. Mr. T. M. Clague was in the vice-chair. Among those present were Messrs. W. Kerse, E. Dean, F. Gilderdale, W. Pescod (Hon. Secretary), W. R. Gray, R. Cubey, H. W. Noble, R. McClumpha, Councillor W. Atkins, C. Russell, J. Hall Forster, R. U. Low, T. Swales, J. Park (Evans, Sons, Lescher & Webb, Ltd.), J. Dakers, T. M. Rutherford (Burgoyne Burbidges), A. Turnbull (B. W. & Co.), J. Crake, J. Duncan (Ayrton, Saunders & Co.), T. O. Mawson, Buglass (John Mackay & Co.), E. R. Cherrett, and C. E. Thursfield (representing the Sunderland Pharmaceutical Association). After dinner the toast of "The Pharmaceutical Profession" was proposed by Mr. Clague

and responded to by Mr. Buckley and Mr. Cherrett. This was followed by an admirable programme of music rendered vocally by Messrs. F. Mace, Hodge, T. Smith, and Young, and instrumentally by Mr. E. Tait (zither) and Mr. J. S. Hill (cello). Mr. McPherson gave some humorous items. Mr. Hobkirk was the accompanist.

### Staff Dinners.

Mr. A. G. Fentiman, dental mechanic, 42 Bishopsgate Without, E.C., announced at the annual dinner of the staff, held at the Farringdon Hotel on January 7, his intention of endowing all his married workmen of two years' service and over with a life policy of 100%, the premiums to be paid by him. There were thirty-nine at the dinner, Mr. Webb presiding. Mr. Fentiman's announcement was received with gratification. The programme of the evening included some good musical items.

Messrs. Newball & Mason gave their annual "Extract" dinner to their staff at the firm's works in Nottingham on December 30, 1909, when Mr. T. Mason presided and Mr. B. Deaville was Vice-Chairman. The toast-list was solely patriotic, being confined to "The King," "The Queen and the Prince and Princess of Wales," and "The Army, Navy, and Territorials." The entertainment programme was very varied, and included Mr. James Barnes's sketch "The Bashful Man." Songs and recitations were also an important feature. The souvenir programme for the evening was full of quotations from English men of note, beginning with Herrick among the dead, and including the Rt. Hon. Herbert Samuel among the living.

### Whist-drive.

The second social event of the Portsmouth Pharmacists' Association this winter took the form of a whist-drive, which was held on Wednesday evening, January 12, at "The Cadena," Osborne Road, Southsea. Local pharmacists and their wives mustered in force, the total attendance being nearly a hundred. Play commenced at 9 p.m. and finished soon after midnight, when the prize-winners were found to be Mrs. B. Davies (Havant), Miss Cruse, Miss Putman, and Miss Smythe, Mr. Barrable, Mr. Tremlett, Mr. T. A. White, and Mr. C. Clayton (Haslar). The arrangements were carried out by a committee consisting of Messrs. Arnold, Barlow, Postlethwaite, Rhodes, Tremlett, and E. H. Smith (Gosport), Hon. Secretary. The programme-card was of novel design, the title of the Association being represented by the arms of the Pharmaceutical Society, the borough of Portsmouth, and the town of Gosport. At the close of the proceedings Mr. E. H. Smith was accorded a vote of thanks, which was tendered with musical honours.

## At the Counter.

"A pennyworth of prommenade of potash," written on a scrap of paper, was handed to an Edinburgh pharmacist recently.

FROM SHANGHAI.—Customer: "A bottle of Kleptomania, please" [Gude's Peptomangan supplied].—Entry in "want-book" by Chinese boy: "Bunion plasters, for corns."

LATEST IN PRICES.—From "Country Chemist," west of Newcastle. Enter little girl. On being told prices of Scott's Emulsion, she volunteered the following: "Mother always gets the 1s. 9d. size for 2s. in town." R. W. (225/13.)

WHERE ANGELS FEAR TO TREAD!—A layman, who does not know the C. & D. classic, has discovered that there is an Art of Dispensing. He copied his prescription from a "doctor's book," and strenuously objected to pay for artistic manipulation. Thus the recipe:

Sulphate of zinc	...	...	40 grains
Sulphate of iron	...	...	20 grains
Grey powder	...	...	20 grains
Venice turpentine	...	...	a sufficiency

Divide into twenty pills.

"Give me a pennyworth of each," he ordered brusquely. Next day a subdued individual asked bashfully: "Will you please make up these pills, and give me something to take this stuff off my hands?"



## Minor Examinations.

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following lists of persons who were granted Minor certificates at this month's examinations:

### London.

Allen, R. D., Lakenham  
Angus, James, Lerwick  
Archer, Fred, Guiseley  
Bales, Walter A., Coventry  
Beall, G. E., Cambridge  
Beck, Richard, Lunefield  
Bryant, E. G., Congleton  
Buckley, William, Lees  
Burke, John E., Leeds  
Calvert, C. L., Southport  
Cecil, H., Little Smeaton  
Cook, William J., Melbourne  
Cox, Guy R., Leamington  
Crawshaw, M., Ramsbottom  
Cutfield, Ethel M., Tilford  
Dobson, Frank R., Carlton  
Dobson, James, Gillingham  
Faull, William C., St. Ives  
Gadsdon, G., Oakleigh Park  
Giles, Egbert C., Newport  
Harris, Charles E., Troon  
Haworth, Frank, Bolton  
Hewitt, Tom L., East Ham  
Hitchcock, F. J., Greenhill Lane  
Horman, George D., Eton  
Hughes, R. H., Queensland  
James, W. M., Carmarthen  
Jelf, George, Redditch  
Johnston, E., Harlesden  
Jordan, Percy G., Grays  
Keeling, Wilfrid T., Hanley  
Kelsey, W., Small Heath

Lewis, S. M., Johannesburg  
Livezey, T. W., Blackburn  
Marns, Thomas, Sunderland  
Neil, Albert, Camelford  
Phillips, P. B., Clapham  
Pomfret, W. B., Preston  
Quincey, Henry, Sleaford  
Rae, D. P., Crossmichael  
Robinson, A. E., Oxford  
Rock, M. C., Chislehurst  
Russell, W. A., Lerwick  
Samways, E. R., Gillingham  
Sharp, Rowland, Pool  
Sharpley, J. A., Cockermouth  
Shelton, B. T. R., Winchester  
Simmons, Maurice A., Crewe  
Simpson, John T. F., Oxford  
Smith, Frederic, Leicester  
Stevens, H., Morecambe  
Stott, Lionel, Dewsbury  
Stott, William S., Aintree  
Strange, F. A., London  
Strickland, J., Northampton  
Taylor, O., Shaw Heath  
Tempton, H., Long Sutton  
Tremoulet, J. L. R., Clapham  
Warburton, A. W., Farnworth  
Wathen, Benjamin, London  
Wilkinson, Alfred, Shipley  
Wilkinson, H. N., Keighley  
Wright, Horace, Stamford  
Wynter, H. W. S., Old Eastbourne

### Edinburgh.

Aitchison, R., Edinburgh  
Alexander, G. J., Arbroath  
Ambrose, W., Aberdeen  
Brownlie, A. McN., Rothesay  
Chaston, E., Newcastle-on-Tyne  
Cope, R., Leek, Staffs  
Gartside, H. W., Westmoreland  
Grierson, J. C., Glasgow  
Harcus, J. S. C., Cape Town  
Jamieson, D. M., Forfar  
Laing, Katherine Edith  
Winifred, Lerwick  
Lightbown, W. H., Tyemouth

Linecar, F. S., Kidderminster  
Mackay, Frank A., Dundee  
Milne, L. A., Peterhead  
Murray, Robert, Dornoch  
Nicolson, Catherine, Scalloway, Shetland  
O'Donnell, H. S., Lochee  
Sinclair, W. O. F., Newfield, S.O., Newcastle  
Smith, John, Crimond, Aberdeenshire  
Stobo, Robert, Auldgrith, Dumfriesshire  
Taylor, T. M., Glasgow  
Watt, Charlotte Henry Ferguson, Duneeht

## College Notes.

**BATH COLLEGE OF PHARMACY F.C. v. ST. LUKE'S F.C.**—This football match, played on the former's ground at Odd Down, Bath, on January 6, resulted in a win for the College by five goals to one. The College has had a highly successful season.

**LONDON COLLEGE OF PHARMACY.**—The College examinations held this month resulted in the following medals being awarded: Chemistry, W. S. Stott (silver medal), W. C. Faull (bronze medal); pharmacy, P. Phillips (silver medal), H. Wright (bronze medal); botany, H. Wright (silver medal), H. Groves (bronze medal); materia medica, H. N. Wilkinson (silver medal), W. C. Faull (bronze medal).

**WESTMINSTER COLLEGE OF PHARMACY.**—The prize-distribution of the above College took place at the Surrey Cricket Club Hotel, Kennington Oval, London, S.E., on January 4, when between forty and fifty students were present. The medal-winners were as follows: Chemistry, I. L. Rene Tremoulet; botany, Fred Archer; materia medica, Thomas Marns; pharmacy, Thomas Marns; dispensing, Egbert G. Giles. Certificates were awarded to the following students: Messrs. J. B. Stanley, B. James, T. Clark, C. C. Wilson, W. R. Winston, L. F. Morris, H. Cecil, F. Ellis, H. M. Radford, R. R. Jones, A. J. Stewart, R. W. Roberts, J. W. Bayley, O. F. Schmelzer, G. K. Brown, V. Stockwell, P. Eden, and G. W. Fennellow.

## Minor Experiences.

### York Place v. Galen Place.

HAVING been examined in all the subjects for the Minor certificate at both centres, it may be of interest to others to hear exactly how the examinations are conducted in Edinburgh and London. At York Place the dispensing-counter is more convenient to work at than the one in London, because the water-bath and bunsen are on the bench in front of the dispenser; while at Galen Place the water-bath is on a bench at the back, and necessitates one looking round from time to time to see how the preparation is getting on. A comparison of the two papers shows that while at Edinburgh there is certainly more to do in the time, there is nothing really to trip over; while in the London paper there are an incompatibility and pills requiring an unusual excipient. In Edinburgh it is all plain sailing.

#### Edinburgh Dispensing.

Prepare enough stavesacre ointment for the following prescription:

Ung. hyd. ammon., ... aa. -ij.  
Ung. staphisagriae ad ʒj.  
Pil. plumbi. c. opio ... gr. iv.

Mitte tales xij.

Suppos. plumbi c. opio Mitte vi.

Ol. eucalypti ... 10 %  
Terebeni ... 15 %  
Camphoræ ... 5 %  
Menthol. ... 10 %  
Paraffin. liq. ad ... ʒij.

#### London Dispensing.

Argenti oxid. ... gr. ij.  
Ext. hyoscyam. ... gr. j.  
Fit. pil. Mitte xxiv.

Prepare 50 grams of lin. potass. iodid cum sapone. (Calculations to be made in the metric system only.)

Sodii nitrit. ... gr. —  
Potass. iodid. ... gr. —  
Syr. limonis ... ʒvj.  
Aq. chlorof. ad ... ʒvj. M.  
Menthol. ... gr. x.  
Camphor. ... gr. v.  
Ol. eucalypti ... ʒv.  
Paraffin. liq. ad ... ʒj.

Prepare a hypodermic solution of strychnine hydrochloride containing 0.5 milligram in each c.c.

#### Edinburgh Chemistry.

Estimate the amount of iron in this solution (w. in w.).

The salt was lead sulphate and silver nitrate.

#### London Chemistry.

Given a ferrous salt, how much of it would be required to make a normal solution of ferrous iron?

Qualitative work: The salt was mercuric sulphide (black) and Epsom salt.

**Materia Medica.**—At Edinburgh, recognise and give percentages of active ingredient. At London, recognise only.

**Prescription-reading.**—At Edinburgh, did not get to see the prescription as a whole, only one line at a time. In London, saw all the prescription at once.

**Pharmacy.**—In Edinburgh there were no galenicals to recognise; otherwise the examination was just about the same as London. A thorough knowledge of the B.P., especially the doses thereof, was demanded at both centres.

**Botany.**—At Edinburgh had only one slide to recognise; at London four.

**Theoretical Chemistry** was certainly more difficult in Edinburgh, because I had to describe a lot of commercial processes which I had never actually seen. In London the chemistry was chiefly the chemistry of the B.P.; no processes, only questions that every chemist ought to be able to answer.

**Result:** At London, certificate and congratulations on having made a good show. At Edinburgh, no certificate, no congratulations.

Contrasting the examinations, there is really wonderfully little difference between London and Edinburgh, but the conditions under which the candidate works are very different. The chemistry laboratory at London excels the Edinburgh one as light excels darkness. The Edinburgh laboratory is dark, the bottles on at least one bench are not distinctly labelled, and men have to wait at the Kipp's apparatus, and lose time when time is very precious. But the chief feature of the Edinburgh laboratory is the table with the balances. It is as unstable as water, it shivers like the aspen, it shakes like a thing infirm. At one time rosy-cheeked bairns may have sat round it supping—ay, and enjoying—their porridge; but no man with a soul can sit at that table and try to weigh and enjoy himself. It is set right in the track of men going to and from the Kipp's apparatus, and in the hurry and excitement of the examination-room this prehistoric one-legged table becomes as a stone of stumbling and a rock of offence. In London the balance stands on a firm foundation, out of the way of everybody, and there is no lack of sulphuretted hydrogen; the bottles are distinctly labelled. The convenience is worth at least half an hour's extra time. Everything is designed for the convenience of the student. The Edinburgh laboratory is simply a disgrace to the Society; and why the Scottish candidates should pay the same fees and have so little for them, as compared with their English confreres, would, I think, furnish good material for original research. (91/19.)



# Trade Report and Market Review.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are obtained for select-d qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at these prices.

## 42 Cannon Street, London, E.C., January 13.

ALTHOUGH the week has been comparatively uneventful as regards price-fluctuations, business shows signs of opening out in a satisfactory manner, and on the export side a steady trade is being done in crude drugs with the United States. The chief alteration in fine chemicals is a decline in pyrogallic acid, following on the break-up of the Convention. Citric acid shows a rising tendency, and the same applies to lemon oils, it being stated that several of the smaller Sicilian citrate of lime factories have closed. A feature is the sharp advance in American turpentine, the position giving rise to some anxiety. Quinine remains firm, with a rising tendency in second hands; the Amsterdam bark-auction to-day will probably give the lead to this market. Quicksilver is lower again in second hands, and the margin between importers' and dealers' prices is now wide. Copper and ammonium sulphate are firmer. Opium lacks support, and prices are nominal. Shellac at auction was lower for the finer qualities of orange. The principal movements, including those of the drug auctions, are as follows:

Higher	Firmer	Easier	Lower
Aloes (Cape)	Ammonia sulphate	Cantharides	Cascara
Asafetida (fine)	Bergamot oil	Cardamoms	sagrada
Buchu	Cocunut oil	Gamboge	Pyrogallic
Linseed oil	Citric acid	Quicksilver	acid
Turpentine	Copper	(sec. hands)	Shellac (fine)
	sulphate	Sarsaparilla	
	Ipecacuanha		
	(Cartagena)		
	Lemon oil		

### Cablegram.

NEW YORK, January 13: Business in drugs is improving. Opium has a firmer tendency at \$5.75 per lb. for druggists' in case lots. Cascara sagrada is nominal at 7c. per lb. Peppermint oil in tins is unaltered. Copaiba is firmer at 45c. for Central and South America. Balsam Canada has been reduced to \$5.25 per gallon. Hydrastis (golden seal) is firm at \$2; and sassafras bark of root is also firm.

### Heavy Chemicals.

There is now a very steady business being done in the heavy-chemical market, and the demand on both home and export account is improving. Most new business is limited to prompt or near delivery, and there has been a fair number of such orders. Consumers having now got more regularly to work, delivery instructions against existing contracts have been better. The general tone of values is firm, and fluctuations are few.

SULPHATE OF AMMONIA.—This market remains very firm, and there has been a good demand for early delivery, both on old contract and new account. Inquiries for forward also seem to have been more numerous, but very little business of this nature seems to have been actually transacted. Present nearest values: Beckton January-June, 11l. 12s. 6d.; Beckton terms, 11l. 5s.; London, 11l. 5s.; Leith January-June, 11l. 12s. 6d. to 11l. 15s.; Hull, 11l. 7s. 6d.; and Liverpool, 11l. 10s. to 11l. 11s. 3d.

ALKALI-PRODUCE.—A good average all-round demand is prevalent for both main and miscellaneous products, and special mention may be made of bleaching-powder, caustic soda, ammonia alkali, and saltcake. Bleaching-powder stands at 4l. 2s. 6d. to 4l. 7s. 6d. for softwood casks on rails. Caustic soda, 76 to 77 per cent., 11l. to 11l. 2s. 6d.; 70 per cent.,

10l. 5s. to 10l. 7s. 6d.; and 60 per cent., 9l. 5s. to 9l. 7s. 6d. Ammonia alkali, 58 per cent., 4l. to 4l. 5s. per ton in bags free on rails. Soda-crystals, 55s. to 57s. 6d. per ton free on rails Tyne, and 57s. 6d. to 62s. 6d. per ton f.o.b. Tyne, and 60s. to 65s. f.o.b. Liverpool. Bicarbonate of soda, 5l. to 6l. per ton, f.o.b. Liverpool, according to packages. Saltcake, 42s. 6d. per ton. Chlorates of potash and soda, steady at 3½d. to 3¾d. per lb., according to quantity, etc. Yellow prussiates of potash and soda are somewhat firmer at 4½d. to 4¾d. per lb. for potash and 3d. to 3½d. per lb. for soda. Hyposulphite of soda keeps firm, though still somewhat irregular. Ordinary crystals in casks, 5l. to 5l. 10s. per ton, and deliveries in 1-cwt. kegs vary from 5l. 15s. to 7l. 15s. per ton, according to quality and quantity. Silicates of soda, 140° Tw., 4l. 5s. to 4l. 15s.; 100° Tw., 3l. 15s. to 4l. 5s.; and 75° Tw., 3l. 7s. 6d. to 3l. 17s. 6d. per ton, according to quality, quantity, and destination.

### Manchester Chemical-market.

January 11.

As anticipated in our last week's report, there has been a large increase in the exports of most kinds of chemicals, and values also show a fairly good approximation with the state of trade considered generally. On home account there has been only a moderate demand. Caustic soda and bleaching-powder have been somewhat firm, with rather more of the latter offering. Quotations for caustic soda are maintained, and for bleaching-powder the figure is generally 4l. to 4l. 5s. per ton softwood casks on rails. There is not much change to note in soda-crystals and saltcake. Best white powdered arsenic is quoted at 12l. 5s. to 12l. 10s., delivered Manchester. Green copperas is very dull, and is quoted in bulk on rails at 12s. 6d. and in barrels 42s. 6d. f.o.b. Sulphate of copper is rather unsettled, but makers still ask higher prices for forward delivery. Acids are quiet, oxalic being quoted 2½d. to 2¾d.; picric crystals, 10d.; and tartaric, 9½d. per lb., less 5 per cent., delivered Manchester. Brown and grey acetate of lime are unchanged and steady. In coal-tar products sulphate of ammonia continues firm at 11l. 2s. 6d. to 11l. 3s. 9d. per ton on rails delivered Manchester. Pitch, 28s. per ton f.a.s. here. There is not much change in naphthas. Wood-alcohol and acetone are rather inclined to advance.

### American Drug-market.

New York, January 4.

Business in the New York drug-market has continued light during the interval, demand being confined to current requirements. Price-changes have been few. The tone of the market is steady, and the sentiment generally optimistic.

ALOE.—Curaçao in boxes has maintained its firm position, desirable grades not being available at less than 7c. Demand is good and the supply limited, most of the recent arrivals having been absorbed on contracts.

ASAFETIDA.—Several small lots have lately been imported, but the all-round scarcity has not been relieved to any extent, and, with a fair demand in progress, prices have advanced 5c. to 60c.

CASCARA SAGRADA is in very quiet demand at former jobbing prices at 7c.

COPAIBA.—Local stocks have been augmented by recent arrivals, but demand is brisk, and C. and S. American brings 45c. to 50c., according to grade. From 50c. to 55c. is quoted for Para, but the quality of some of the offerings is poor.

DAMIANA-LEAVES.—Small supplies are reported available at primary sources, but meanwhile local holdings are small; 50c. is generally asked for prime grades, but there are sellers at 45c.

HYDRASTIS.—Spot demand has been backward of late, and the range of prices rather nominal at \$1.90 to \$2. Late inquiries at primary sources, with a view to renewal of stock, disclosed considerable firmness there, and resulted in a spot advance to \$2 as an inside figure.

JALAP continues to react owing to slackening demand and freer supplies, the lower quotation of 35c. coming into force during the week.

OPUM in case lots is now quoted in some quarters at a 10c. reduction to \$5.75. This lower figure is not generally met, however, and conditions at present are somewhat unsettled.



**PEPPERMINT OIL (AMERICAN).**—The position in both local and country markets is practically unaltered. Spot dealers order sparingly from primary sources, being hopeful of easier terms early in the year, but such tendency is not generally apparent. Jobbing prices for "tin" oil remain at \$2 to \$2.10, as to quantity and dealer.

**SASSAPRAS-BARK** continues firm at former values, the prices varying much, according to quality desired.

**SENEGA** is firm at 60c. to 62½c., in sympathy with primary conditions of scarcity and control.

### London Markets.

**ACID, CITRIC**, is firmer, English being quoted 1s. 4½d. to 1s. 4¾d., and foreign 1s. 4½d.

**ACID, PYROGALLIC.**—As the result of competition on the part of an "outside" maker, who has refused to join the syndicated makers, it has been decided to formally dissolve the Convention. It is not anticipated that there will be much underselling, as prices have already been reduced to an unremunerative level. It may also be stated that, notwithstanding the dissolution of the Convention, cohesion still exists among the makers who formerly comprised it. Circulars have been issued to-day (Thursday) announcing a reduction of about 4d. per lb. in resublimed and crystals, the new rates of some makers being as follows:

—	1 oz. bottles	1 lb. tins	7 lb. tins	14 lb. tins
	s. d.	s. d.	s. d.	s. d.
Crystals..... 14 lbs.	4 11	3 7	3 5	3 4
" ..... 56 "	4 10	3 5	3 3½	3 3
Re-sublimed 14 "	7 4	4 3	4 0	3 11
" ..... 56 "	7 2	4 1	3 10	3 9

It cannot yet be said that all the makers are quoting the same prices, but the above rates may be taken as those of a leading maker.

**CASSIA VERA.**—At auction eight bales offered and sold at 32s. 6d. for good Padang broken quill.

**CHILLIES.**—At auction 134 bags of Japanese were offered and bought in, including fair bright mixed at 40s.

**CINCHONA.**—The shipments from Java to Europe during December amounted to 1,345,000 A.lb., against 1,570,000 A.lb. last year, 1,190,000 A.lb. in 1907, and 564,000 A.lb. in 1906. The total shipments for the year were 15,490,000 A.lb., against 15,677,000 A.lb. last year, 17,214,000 A.lb. in 1907, and 13,516,000 A.lb. in 1906. At the drug-auction 8 serons of Huanuco quill sold at 5½d. for sound and 4½d. for country-damaged.

**CLOVES.**—At auction nothing was offered. Privately the market has been very quiet, closing with sellers of Zanzibar for January-March delivery at 4½d., and for January-March shipment at 4½d. c.i.f. d/w.

**COLCHICUM-ROOT.**—New crop is offered at 40s. per cwt. c.i.f.

**COPPER SULPHATE** is 5s. dearer. Liverpool brands offering at 20l. 5s. for prompt, and 20l. 15s. for March-April delivery.

**GINGER.**—At auction nothing was offered, but privately a fair business has been done in washed Cochin and Calicut rough at firm rates.

**MORPHINE.**—There is little demand at the moment, buyers holding off as the result of the late easier feeling in opium. Makers' prices are unaltered on the basis of 3s. per oz. for muriate powder.

**OIL, CASSIA.**—Business for January-February shipment has been done at 3s. 7d. c.i.f. for 80 to 85 per cent. c.a.

**OIL, CASTOR.**—Hull make for prompt delivery is quoted at 27l. 15s. for first pressing, and 27l. 10s. for January-June. In Liverpool, good seconds Calcutta is quoted 3½d. to 3¾d. per lb., with small sales thereat.

**OIL, COD-LIVER.**—Only a retail business is passing at previous rates. Quotations are from 72s. 6d. to 75s. c.i.f. as to agent, but probably a shade under the lower figure would be accepted in one quarter. Our Bergen correspondent writes on January 10 that the market continues very quiet but firm at 73s. per barrel c.i.f. for finest non-congealing Lofoten oil. The yield of the fisheries during December has been poor, and there are no arrivals

of new oil as yet. The exports from Bergen up to date amount to 293 barrels, against 383 barrels at the same date of last year.

**OIL, LEMON.**—Prices still show a rising tendency, owing to the fact that the increased export-duty has compelled some of the smaller factories to close. Up to 3s. 8d. c.i.f. London has been quoted this week, but slightly less will buy.

**OIL, TURPENTINE**, has been a strong and advancing market, American closing on the spot at 42s. 6d. per cwt.

**OILS (FIXED).**—Several important advances have again taken place. *Linseed* has risen substantially, closing at 33l. 10s. to 33l. 15s. for pipes in London, and 34l. in barrels. *Coconut* is also dearer at 41s. 6d. for Ceylon spot and 45l. for Cochin. *Soya bean* oil has advanced to 28l. 10s. naked on the spot.

**OPIMUM.**—A continued absence of demand is reported on the primary markets, and on the spot the position continues unaltered, business being quite retail, and prices are therefore more or less nominal. At the close cables have been received intimating severe damage to the growing plants by frosts.

Writing, on December 31, a Smyrna correspondent states an American buyer came forward and purchased 22 cases Karahissar druggists' . . . . Old manufacturing may shortly be offering at 15s. 6d. to 16s. 6d., according to quality. The year closes very favourably as regards Interior sowings, but owing to abnormally mild weather, a large percentage of the cultivation is unprotected by the usual covering of snow. A Smyrna monthly report states that during December 187 cases changed hands, chiefly for the U.S.A. The arrivals to date amount to 1,836 cases, against 1,971 cases at the same date of last year, and in Constantinople to 2,531 cases, against 1,754. The stock is about 800 cases, against 2,545 cases at the same time last year, and in Constantinople 386 cases, against 182 cases. A Salonica correspondent writes on January 2 that practically no business has been done in the primary markets. Slight concessions have been made, but buyers at this time of the year are more occupied with stock-taking and balance-sheets than with new opium transactions. We must remark, however, that the order for 20 cases, from the United States, executed on December 31, confirms our information that American buyers are badly in want of goods. The prices ruling have been as follows: Druggists', as to quality, 16s. to 17s. 3d.; richest manufacturing, 17s. 9d. to 18s.; soft-shipping ditto, 17s. to 18s. per lb. Writing on December 30 a Smyrna correspondent reports the sale of 33 cases extra Karahissar t.q. at 164 piastres, or the equivalent of 17s. 8d. per lb. c.i.f., and 2 cases ditto at 17s. 9d., for the U.S.A. Only the small weak holders are selling, as the stronger holders are of opinion that prices will rise owing to insufficiency of stock.

**PIMENTO.**—At auction 83 bags were offered and bought in at 2½d. Privately sellers quote 20s. 3d. c.i.f.

**QUICKSILVER.**—The first-hand price remains at 9l. 15s. per bottle, but second-hand is easier at 9l. 11s. Appended are Mr. A. S. Pickering's annual statistics:

		Price			
		Imports	Exports	Highest	Lowest
		Bottles	Bottles	£ s. d.	£ s. d.
1909	...	43,163	22,050	9 17 6	7 19 0
1908	...	43,605	22,348	8 10 0	7 12 6
1907	...	39,448	29,465	8 5 0	6 15 0
1906	...	38,823	27,712	7 7 6	6 17 0
1905	...	34,034	21,330	7 15 0	7 1 0
1904	...	33,218	27,277	8 5 0	7 14 0
1903	...	34,866	18,846	8 15 0	8 5 0
1902	...	33,192	19,519	8 17 6	8 14 6
1901	...	35,341	26,863	9 2 6	8 17 6
1900	...	32,725	25,869	9 12 6	9 2 6

The estimated consumption in the United Kingdom is 13,000 bottles per annum.

**QUILLAIA.**—Sales have been made at 31l. per ton in store in Liverpool.

**QUININE.**—Interest this week centres in the bark-sale at Amsterdam, the result of which we give in this week's issue. The better tone for the sulphate is still maintained, and agents for the German makers report having booked



several contracts at 7½d. per oz.; apart from this, makers are busy on the export side, especially for India, to which country increasing quantities have been sent this year. In second-hands the market remains firm on the basis of 7½d. for B. and S. and/or H.B., 6½d. for Amsterdam, and 6¾d. for Java, after fair sales at 6½d. The next auction of the Amsterdam Quinine-works will be on January 21, when 50,000 oz. will be offered. To-day we hear that a sale of 10,000 oz. of the B. & S. brand has been made at 7½d. per oz. for February-March delivery to a speculator in Mincing Lane. It is now two years since the last speculation in quinine took place in the Lane, so that the present transaction is towards a revival of interest.

SENEGA.—Privately spot is quoted 2s. 5d. to 2s. 6d., and for shipment 2s. 6d. to 2s. 7d. c.i.f. terms.

SHELLAC.—At auction 1,031 cases were offered without reserve, and the bulk sold, including good to fine second orange, A.C. and button at a decline of from 2s. to 3s. Good to fine second orange, more or less out of condition, 70s. to 78s. T. N., good bright red face, 67s. to 68s.; palish broken, 65s. to 67s.; broken and dusty, 56s. to 58s.; ordinary to good, slightly matted and blocky, 58s. to 66s. A. C. Garnet, free, 64s. to 65s. G. A. L., slightly cakey to blocky, 43s. to 44s. I. G., cakey to hard cakey, 51s. Ralli, seconds flat free, 41s. Stamped pure Button, fine pale free, 108s.; good free firsts, 91s. to 93s.; cakey, 91s. to 93s.; free seconds, 76s. to 77s.; circle two's free, 73s.; and free thirds, 70s. Good pale free tongue, 86s. Good BL1, free, 65s. to 67s.; cakey and blocky, ditto, 62s. to 65s.; palish livery free, 59s.; ordinary weak, 53s. Good BL2, free to slightly cakey, 61s. to 63s.; cakey to blocky, 60s. to 61s. BL3, cakey to blocky, 50s. to 51s. BL4, free, 48s. Kala, cakey to blocky, 46s. to 47s. Privately a quiet tone has prevailed, the value of fair free T. N. orange being 68s., and for arrival sellers quote February-March shipment at 68s. and April-May at 69s. c.i.f. Futures have also been quiet, the sales including May at 71s. 6d.

### London Drug-auctions.

AFTER an interval of six weeks, auctions were resumed to-day, when a large supply of old and new drugs was offered. Demand, on the whole, was very fair, and much better than is usually the case with the first auctions. Price-changes were comparatively few, and included a rise of 1s. to 1s. 6d. in Cape aloes. Zanzibar in skins and Socotrine in kegs are neglected. Curaçao was mostly withdrawn, as quality is improving. Asafetida was in excessive supply, and only good quality was competed for at very erratic but extreme rates. Annatto-seed is plentiful and neglected; again higher rates were paid for buchu. Sumatra benzoin is quiet and easy. Cascara sagrada was parted with at lower rates. Cardamoms were too plentiful for buyers' ideas, and with a poor demand, rates tended downwards, although seeds were steady. Ceylon coca-leaves were in demand at generally steady rates. Colocynth remains very low for apple and pulp. Dragon's-blood met with no support publicly. Gamboge and the bulk of the honeys were bought in. East Indian ipecacuanha partly sold at about previous auction rates. Matto Grosso and Minas being quiet and unaltered. Cartagena was rather firmer than last public sale. Myrrh quiet, although business privately during the past month has been good. Rhubarb has an easy tendency. Grey Jamaica sarsaparilla realised steady prices, native Jamaica was dull, and Mexican, of better quality than usual, brought full rates. Common Tinnevely senna sold at unchanged prices. Zanzibar, Madagascar, and Abyssinian beeswax brought full rates. The table below shows the amount of business done publicly, but it need hardly be added that a considerable amount is done privately immediately at the conclusion of the brokers' catalogue, so that the second column in the table only represents a portion of the business done in the Room.

Offered	Sold	Offered	Sold
Accroides.....	28 ... 0	Annatto-seed .....	96 ... 0
Aconite (Jap.).....	23 ... 0	Apricot-kernels .....	70 ... 0
Agar-agar .....	10 ... 0	Araroba .....	4 ... 0
Albumen (egg).....	12 ... 0	Argol (Cape) .....	9 ... 0
Aloes—		Asafetida .....	282 ... 29
Cape .....	79 ... 59	Bael Fruit .....	5 ... 0
Curaçao (boxes) .....	65 ... 15	Balsam—	
Socotrine (kegs) .....	10 ... 5	Peru .....	15 ... 0
Zanzibar (skins, cs.) .....	25 ... 2	Tolu .....	8 ... 4
Ambergris (tins).....	4 ... 0	Benzoin—	
Aniseed (Russ.) .....	40 ... 0	Palembang .....	30 ... 25

Offered	Sold	Offered	Sold
Benzoin—		Lime-juice .....	26 ... 0
Sumatra .....	254 ... 22	Mastich .....	2 ... 0
Buchu .....	18 ... 16	Menthol .....	17 ... 0
Butterbeans.....	328 ... 179	Musk-seed .....	1 ... 0
Calumba .....	21 ... 0	Myrrh .....	83 ... 10
Camphor (Ch. cr.) .....	19 ... 0	Nux vomica .....	758 ... 0
Ceylon (cr.) .....	1 ... 1	Oil—	
Jap (tabs) .....	40 ... 0	bay (W.I.) .....	4 ... 0
Slabs (cs.) .....	5 ... 0	camphor (drum) .....	1 ... 1
Canella alba .....	5 ... 0	cinnamon .....	48 ... 4
Cannabis indica .....	22 ... 0	citronella (Java) .....	20 ... 0
Cantharides (China) .....	10 ... 5	eucalypt .....	95 ... 25
Cardamoms .....	614 ... 223	lemongrass .....	3 ... 0
Cascara sagrada .....	78 ... 78	lime .....	9 ... 0
Cascarella .....	24 ... 0	orange .....	12 ... 4
Cashew-nuts .....	31 ... 0	peppermint .....	35 ... 3
Cassa fistula .....	20 ... 0	Orange-peel .....	55 ... 0
Chiretta .....	30 ... 0	Orchella-weed.....	39 ... 0
Cinchona .....	8 ... 8	Orris—	
Civet (hrns.) .....	2 ... 0	Flor. ....	34 ... 0
Coca-leaves .....	154 ... 81	Mog. ....	6 ... 6
Cochineal .....	8 ... *8	Patchouli .....	20 ... 0
Colocynth and pulp .....	112 ... 23	Quillaia.....	50 ... 0
Croton-seed .....	8 ... 8	Rhatany .....	9 ... 0
Cubebs .....	10 ... 0	Rhubarb—	
Cumin-seed .....	32 ... 0	China.....	86 ... 11
Cuscuta .....	2 ... 2	Saigon .....	6 ... 6
Cuttlefish-bone .....	91 ... 39	Sarsaparilla—	
Digitalis leaves .....	6 ... 0	Grey Jam. ....	45 ... 45
Drill-seed .....	90 ... *90	Guatemala .....	62 ... 0
Dragon's-blood .....	52 ... 0	Honduras .....	13 ... 0
Elemi .....	30 ... 0	Mexican .....	8 ... 8
Ergot .....	33 ... 0	Native .....	15 ... 3
Fennel-seed.....	12 ... 0	Scabiac .....	10 ... 0
Galangal .....	25 ... 0	Seedlac .....	142 ... 0
Galls (Pers.).....	20 ... 0	Senega .....	6 ... 0
Gamboge .....	25 ... 4	Senna and pods—	
Gentian .....	20 ... 0	Alex. ....	68 ... 0
Guaiaicum.....	2 ... 0	Tinnevely .....	424 ... 419
Gum arabic .....	356 ... 33	Soy (Jap. cs.) .....	36 ... 0
Honey—		Soyabean oil (ck.) .....	1 ... 0
Australian .....	5 ... 0	Squill .....	70 ... 0
Hawaiian .....	20 ... 0	Sticklac .....	101 ... 0
Honduras .....	30 ... 0	Tamarinds—	
Italian (cs.) .....	100 ... 0	West Indian .....	24 ... 0
Jamaica .....	81 ... 7	East Indian .....	11 ... 0
New Zealand .....	15 ... 0	Tragacanth .....	308 ... 11
St. Lucia .....	20 ... 10	Turneric .....	344 ... 0
Tunis .....	8 ... 0	Turpentine (Venice) .....	4 ... 0
West Ind. ....	8 ... 0	Wax (bees')—	
Insect-flowers.....	2 ... 0	Abyssinian .....	142 ... 142
Ipecacuanha—		Australian .....	2 ... 0
"Bahia" (spurious) .....	3 ... 3	Chilian .....	10 ... 0
Cartagena .....	1 ... 1	Cuban .....	13 ... 0
East Indian .....	40 ... 11	East African .....	8 ... 8
Matto Grosso .....	13 ... 4	East Indian .....	179 ... *29
Minas .....	12 ... 3	Jamaica .....	48 ... 7
Jaborandi.....	3 ... 3	Madagascar .....	110 ... 30
Jalap .....	10 ... 0	Mombasa .....	20 ... 20
Kamala .....	3 ... 0	Morocco .....	15 ... 12
Kino .....	23 ... 0	Spanish .....	45 ... 0
Kola .....	23 ... 15	West Indian .....	4 ... 2
Lavender flowers .....	6 ... 0	Zanzibar .....	118 ... 118
Lemonpeel (cut).....	5 ... 0	Wax (veg.) Jap.....	35 ... 0
Liquorice-root .....	8 ... 0	Wood-oil .....	50 ... 0

\* Sold privately.

AGAR-AGAR.—For 10 bales of No. 1 Kobe strip 1s. 10½d. per lb. was wanted.

ALOES.—Cape sold well at an advance of 1s. to 1s. 6d. per cwt., the following prices being paid: Mossel Bay (20 per cent. tares), good bright hard firsts, 35s. to 35s. 6d.; ullaged, ditto, 34s. 6d.; good seconds, 33s. 6d. to 34s.; fair ditto, slightly drossy, 32s. to 32s. 6d.; dull and drossy, 31s. 6d.; ordinary mixed with dirt, 29s. 6d. Algoa Bay (shipping tares), drossy, 29s.; 14 cases Algoa Bay were bought in at 33s. for specky livery character. The Egypt, from Bombay, has brought 125 kegs of Socotrine. At auction 50 boxes Curaçao, comprising some good lots of capey turning livery, were withdrawn, no prices being mentioned. Fifteen boxes Curaçao sold without reserve at 34s. to 35s. 6d. for dull to dark livery, and five kegs Socotrine changed hands at 95s.

ARABOBA.—For four cases analysing 54.2 chrysarobin 2s. per lb. was wanted.

ASAFETIDA.—Notwithstanding the larger supply of 262 packages, the demand, chiefly for American account, forced prices up to extremes for any gum approaching good quality. Good alomdy partly massed sold at from 9l. 10s. to 10l. 5s., and more pasty and blocky at 8l. to 9l. 7s. 6d. Another



parcel of free dark brownish gum sold dearly at from 9*l.* 10*s.* to 9*l.* 15*s.* The remainder was bought in, the demand being almost entirely for good quality. The prices paid, however, were very erratic.

**BALSAM, TOLU.**—Four cases drossy in large tins sold at 9½*d.*

**BENZON.**—Quiet. Four cases of good almondy seconds Sumatra well packed with small to medium almonds sold at 7*l.* 15*s.*; not quite so well packed, five cases, at 7*l.* 10*s.*; fair seconds, false-packed ends, 6*l.* 7*s.* 6*d.* subject; and common ditto, with bold scattered almonds, 5*l.* 12*s.* 6*d.* Thirds were held at 90*s.* to 95*s.* per cwt. Twenty-five cases Palembang realised 57*s.* 6*d.* for fair almondy in tins, and 44*s.* 6*d.* for common thirds.

**BUCHU** showed an advance of 1*d.* to 3*d.* on recent private rates, and 6*d.* to 8*d.* on last auction prices. Fifteen bales of fair to good round green, partly stalky, sold at 2*s.* to 2*s.* 3*d.* Green longs (three bales) realised 11*d.* to 11½*d.* For greenish ovals 1*s.* 5*d.* was refused; a bale sold at 1*s.*

**BUTTER-BEANS** partly sold at from 16*s.* 3*d.* to 18*s.* for African.

**CAMPHOR (CRUDE).**—A single case of brownish Ceylon sold at 130*s.* per cwt. and a drum of Ceylon camphor oil realised 28*s.* Several small lots of China crude were held at 135*s.* to 140*s.*

**CAMPHOR (REFINED).**—Various parcels were offered, and the bought-in lots included 1-oz. tablets of Japanese refined at 1*s.* 7*d.*, and ½-oz. and ¼-oz. at 1*s.* 7½*d.*

**CANNABIS INDICA.**—The price of fair Bombay tops remains at 4*s.* 6*d.* per lb., and for East African 6*d.* is wanted.

**CANTHARIDES** sold cheaply without reserve, five cases fair Chinese realising 11*d.*

**CARDAMOMS** were in large supply and in poor demand, and in consequence rates tended easier, the following prices being paid: Ceylon-Mysore, extra bold palish to fine pale, 2*s.* 4*d.* to 2*s.* 6*d.*; bold yellowish round, 2*s.* 3*d.* subject; medium and bold, palish to pale, 2*s.* to 2*s.* 3*d.*; small and medium palish to pale, 1*s.* 8*d.* to 1*s.* 11*d.*; tiny pale, 1*s.* 4*d.* to 1*s.* 5*d.*; brown and split, 1*s.* 2*d.* to 1*s.* 5*d.*; bold pale splits, 1*s.* 8*d.*; medium ditto, 1*s.* 5*d.*; shelly splits, 1*s.* 5*d.* to 1*s.* 6*d.*; seed, 1*s.* 5*d.* to 1*s.* 8*d.*; fourteen cases seed sold in a line at 1*s.* 8*d.*

**CASCARA SAGRADA** sold cheaply; 78 bags of 1906 bark of fair quality realised 35*s.*

**COCA-LEAVES** were in demand. Twenty bales of good green, Truxillo character, sold at 7*d.*, and fair greenish to yellowish 6*d.* to 6½*d.* per lb. Forty cases of brownish Ceylon-Huanoco sold at from 10*d.* to 11*d.*, and damaged at 4*d.* per lb.

**COLOCYNTH.**—Thirteen cases of ordinary broken Spanish sold cheaply without reserve at from 4½*d.* to 4½*d.*; 82 bales Turkey pulp were bought in at 7½*d.*, and apple at 8*d.* to 9*d.* Ten cases small to bold broken and very seedy apple realised 6*d.*

**CROTON-SEED.**—Eight bags fair Ceylon sold at 51*s.* per cwt.

**CUTTLE-FISH BONE.**—Nine bales of medium to bold palish damp sold at 3½*d.*, and a further 20 mats of small to bold fair realised 3½*d.*

**DIGITALIS-LEAVES** continue very scarce. A lot of six bales fair German were limited at 95*s.* per cwt. net, no allowances.

**GAMBOGE.**—Eleven cases have arrived this week *via* Havre. In auction only two cases changed hands, including one of fair partly blocky Siam pipe at 13*l.* 5*s.*, and another damp at 14*l.* subject; several cases had been sold privately.

**GUAIACUM.**—Two casks of fair, slightly drossy block were limited at 1*s.* 3*d.*, but a bid of 7*d.* is to be submitted.

**HONEY.**—Slow. A few barrels Jamaica sold at 25*s.* to 26*s.* per cwt. for brown set. Of St. Lucian honey, 20 packages were offered, of which 10 casks sold at 24*s.* for brown dark liquid.

**IPECACUANHA.**—Quiet. Of East Indian 40 bales were offered and partly sold at from 6*s.* 5*d.* to 6*s.* 6*d.* per lb. for good, native picked, well annulated root, as compared with 6*s.* 5*d.* to 6*s.* 8*d.* in November. Fair bright sound Matto Grosso was held at 5*s.* 9*d.* to 5*s.* 10*d.*, and several small sales had been made at these prices. Grease- and sea-damaged sold at 5*s.* 4*d.* to 5*s.* 5*d.* Six bales of Minas were held at from 5*s.* 8*d.* to 5*s.* 10*d.* per lb., and three bales of so-called Bahia (spurious) sold without reserve at 5*d.* per lb.

**JABORANDI.**—Three bales (not official) sold without reserve at 1*d.* per lb. for ordinary brown.

**JALAP.**—Seven bags 9-per-cent. resin were retired at 1*s.* 7*d.*, no allowance except tare, no discount.

**KOLA.**—Eleven bags of fair West Indian sold at from 2½*d.* to 3*d.* Three bags sold at 2½*d.* for fair bright halves, and at 1½*d.* for a single barrel of small dark and part mouldy.

**LAVENDER-FLOWERS.**—Six bags fair French were bought in at 45*s.*

**MENTHOL.**—Several parcels were offered, but no business was effected; various bids are to be submitted, including

one of 8*s.* 6*d.* per lb. for three cases of Yazawa, and another of 8*s.* 6*d.* for five cases Suzuki, the limit being 8*s.* 7*d.* Privately the market is quiet, with sales of Kobayashi to arrive near at hand at 8*s.* 5*d.*

**MYRRH.**—Ten bales of common small and dusty sorts from Aden sold at 55*s.* to 56*s.* Good slightly blocky Aden sorts were bought in at 70*s.* Privately there has been a fair demand.

**OIL, CINNAMON.**—Four cases Ceylon leaf sold at 2½*d.* per oz.

**OIL, EUCALYPTUS.**—Twenty-five cases of Amygdalina type sold at 7½*d.* per lb. The analysis showed sp. gr. 0.865, optical rotation -47°, and containing only a small quantity of eucalyptol. Three cases of *Citriodora* were bought at 3*s.*, 20 cases containing 65 per cent. eucalyptol were held for 1*s.* 1*d.*, and 10 cases 67 per cent., catalogued as "globulus," at 1*s.* 1½*d.* The *Agamemon* and *Cufie*, both from Melbourne, have brought 143 cases and 17 cases respectively.

**OIL, ORANGE.**—Four cases of West Indian distilled sold at 4*s.* 6*d.* per lb., subject to seller's approval.

**OIL, PEPPERMINT.**—Three cases of Japanese (Kobayashi) sold at 5*s.* 8*d.*, and five cases of Yazawa were held at 5*s.* 7*d.* per lb. Privately the market has been quiet, sellers of Japanese (Kobayashi) quoting 5*s.* 6*d.* c.i.f. for January-March shipment.

**ORCHELLA-WEED.**—Five bales sold at 8*s.* per cwt.

**ORRIS.**—Six serons of very fair Mogador sold at 23*s.* 6*d.*, and 20*s.* for lean. Thirty-four bags of Florentine were bought in, including good bold pale selected at 50*s.* to 52*s.*, and very fair sorts at 40*s.*

**RHATANY.**—Nine bales chumpy Peruvian were retired at 4½*d.*, a bid of 3½*d.* being refused.

**RHUBARB.**—Quiet. Two cases bold round orange-coated Canton slightly stalky, with ¾ fair pinky fracture, sold at 1*s.* 1½*d.*, and for three cases Canton pickings, part spongy, with ¾ good fracture, 11*d.* was paid subject. Two cases medium flat part roughly trimmed, with ¾ fair colour, sold at 11*d.*, and for bold flat High-dried, dullish coated, with ¾ pinky fracture, 1*s.* was paid, medium ditto, slightly wormy, going at 11*d.* Small round horny High-dried was held at 5½*d.* Six cases Saigon rhubarb had been sold privately. The sales privately include small and medium horny High-dried up to 5½*d.*

**SARSAPARILLA.**—About steady for grey Jamaica, of which 45 bales were offered and sold at from 1*s.* for common rough and part dark, at 1*s.* 1*d.* for fair, and 1*s.* 2*d.* for good fibrous. Of Native-Jamaica 15 bales were shown, and five sold at 11*d.* per lb. for fair red. Another lot of eight bales of Native was bought in at 1*s.*; 19 bales of common chumpy Mexican were bought in at from 4*d.* to 4½*d.* Eight serons of Mexican in rolled hanks, quite free from chumps, sold at 7½*d.* (one lot 6½*d.*). The fact that all the chumps had been removed prior to shipment—a new departure—materially added to the value.

**SENEGA.**—Six bales of fair were held at 2*s.* 6*d.* per lb. net.

**SENNA.**—Tinnevely leaf sold without alteration, the bulk going at from 1½*d.* to 1¾*d.* for common yellowish leaf, 2*d.* to 2½*d.* for middling greenish leaf, and 3*d.* to 3½*d.* for fair greenish. *Pods* sold at 2½*d.* to 3½*d.*

**WAX, BEES.**—Firm generally; 118 packages Zanzibar realised 6*l.* 15*s.* for good even brown block, and for 20 packages Mombasa pipe from 6*l.* 7*s.* 6*d.* to 7*l.* 2*s.* 6*d.* was paid for dark part low and foul pipe to fair, mostly palish; 30 mats palish brown Madagascar sold at 6*l.* 15*s.*, and a further 80 mats were also held at the same price. 142 bags of Abyssinian sold at from 6*l.* 15*s.* to 6*l.* 17*s.* 6*d.* for fair, part dark block, and for 17 bags of inferior from 5*l.* 10*s.* to 5*l.* 17*s.* 6*d.* was paid. Eight bales of East Indian, part dark, sold at from 6*l.* 12*s.* 6*d.* to 6*l.* 15*s.*, and twelve bags of adulterated Morocco realised 62*s.* 6*d.*, without reserve. Several small sales of West Indian were made, including fair yellow at 7*l.* 7*s.* 6*d.*, and nice bright yellow at 8*l.* per cwt.

**WAX (JAPAN).**—For 10 cases of fair pale squares 45*s.* was asked.

**AMSTERDAM, January 13:** At the auction of cinchona held here to-day, 8,532 packages were offered, of which 7,726 packages sold at the average amount of 3.10*c.* per half-kilo., against 3.06*c.* paid at the auction on December 9. The following were the approximate quantities of quinine purchased by the principal buyers: (1) The English and American factories, 9,954 kilos.; (2) the Brunswick factory, 5,733 kilos.; (3) the Mannheim factory, 4,587 kilos.; (4) the Amsterdam factory, 1,084 kilos.; (5) the Frankfurt and Stuttgart factories, 2,925 kilos.; (6) the Maarsen factory, 2,632 kilos.; (7) various buyers, 12,604 kilos. The lowest price paid for manufacturing-bark was 2½*c.*, and the highest 32½*c.*; while for druggists' bark from 6½*c.* to 42*c.* was paid.



## Commercial and Produce Notes.

### Bark and Quinine Statistics.

Messrs. C. F. Boehringer & Söhne, of Waldhof, Mannheim, have issued their annual cinchona and quinine statistics for 1909. The former show imports of bark into the United Kingdom (2,424,000 lb., against 1,930,000 lb. in 1908), the exports from Java (15,490,000 Amst. lb., against 15,677,000 lb. in 1908), first-hand stock of bark on December 31 (London, 4,724 packages, against 4,183; Amsterdam, 21,402 packages, against 22,235 packages). The range of unit at the bark-sales in London was  $\frac{1}{2}$ d. to  $\frac{3}{4}$ d. per lb., and in Amsterdam 2.95c. to 3.20c. per half-kilo.; and the average percentage of quinine in manufacturers' bark offered at Amsterdam was 6.29, against 6.33 per cent. in 1908 and 6.09 per cent. in 1907. The quinine statistics include the makers' prices from 1901 to 1909, the quinine-contents of the bark sold in London and Amsterdam, the London stock of quinine, and highest and lowest prices of quinine and bark during the last thirteen years. The decline in the London bark-auctions is illustrated by the fact that whereas in 1900 2,000,000 oz. of quinine "in the bark" was offered, the 1909 result shows 350,000 oz. only. Mr. P. Brusse, of Amsterdam, has also issued a report on the Amsterdam bark-market during 1909.

### Camphor Experiments in the West Indies.

In the "Agricultural News" (Barbados) attention is drawn to some experiments with camphor that have been made in the Government Laboratory, Jamaica. Weighed quantities, it is stated, from different parts of the stem, which were obtained from trees growing at Knockalva Pen, were subjected to steam distillation, and the distillate suitably treated in order to separate oil and camphor, the latter then being heated over quicklime for the purpose of getting the pure sublimate. The highest yield of camphor was obtained from the tips of the shoots. The amounts of camphor oil and camphor obtained, on an average, from the whole stem were respectively 0.23 per cent. and 0.28 per cent., making a total of 0.51 per cent. In the same connection a reference is made to somewhat similar experiments carried out at the Government Laboratory and Botanic Station in Antigua. In these oil only was obtained, and it was found that the wood gave 0.4 per cent., while the amount obtained from the leaves and twigs was 1.2 per cent. So that in both cases the experiments proved that the younger parts of the plant give the largest yields.

### German Chemicals and Drugs in 1909.

A report on German trade in chemicals and drugs last year, issued by a Berlin firm, states that the present improvement in trading conditions dates from August 1909, the unfavourable economic situation of 1907 and 1908 having lasted until that period. During the early months of the year prices of pharmaceutical and industrial drugs and chemicals had a downward tendency, as a sufficient restriction of over-production brought about by the previous period of prosperity was not carried out. Subsequently the decline in prices abated, a tendency to advance being shown in October, this being particularly the case in articles affected by the new German taxes. The uncertainty respecting the course of the Customs tariffs in the U.S.A. and France had a paralysing effect, although exports of some articles to the former country were extraordinarily large, in anticipation of the tariff. Average European exports were satisfactory, but those to South and Central America, Eastern Asia, and Australia left much to be desired. Imported drugs competed increasingly with home products, because the latter were dear last season, owing to generally poor crops. Co-operative purchasing associations show a steady growth, but there has been a disinclination to renew price-conventions and arrangements on the part of makers. It is anticipated that the financial results of 1909 will be small, owing to constant growth of expenses and increased competition.

### German Spirit.

In a report on the finances of the German Empire for 1909, Count de Salis (Councillor of H.M. Embassy at Berlin) states that the total receipts from spirits for the year October 1 to September 30, 1908 (the *Betriebs-Jahr*), according to the "Statistischer Jahrbuch," were 7,516,400l., this amount being derived from the mash-tub tax, the materials-tax, the consumption-tax, and supplementary tax, the Customs, and the surplus (if any) from the distillation-tax. Herr Sydow proposed to abolish all these taxes, and to abolish also the "contingent" (the arrangement by which a certain quantity of spirit is allowed to pay consumption-duty at a lower rate). In place of all these there was to be a spirit monopoly, the Empire becoming the sole middleman. The Government were to buy the raw spirit from the distiller, refine it, and resell it to the retailer, the price to the consumer being raised

by 50pf. per litre ( $6\frac{1}{2}$ d. per 1 $\frac{1}{2}$  pint); the monopoly was estimated to bring in a revenue of 11,000,000l. The Reichstag rejected the proposed measure, though it was urged that as more than 80 per cent. of the spirit trade was already in the hands of a syndicate, the question was not one of monopoly *versus* free trade, but of State monopoly against private monopoly. The existing law substituted for it abolishes the tax on materials and the distillation-tax, but imposes, in place of the latter, a tax on manufacture (*Betriebssteuer*), the principal object of which seems to be to secure a market for spirits by granting bounties on denatured alcohol. The rates for bounties are now double those which were previously imposed by the distillation-tax (now 9m. per hect. for incompletely denatured, and 18m. per hect. for completely denatured spirit). The consumption-tax is increased, but the "contingent" system is retained, the privileged quantity of spirits comprising the contingent being allowed to pay consumption-tax at a rate of 20pf. per litre less than the rest. The rates are 1.05m. per litre for the "contingent" and 1.25m. per litre for spirits in excess of the "contingent." The much-abused *Liebesgabe* or bounty arising out of this difference accordingly remains, while facilities for syndicating the trade seem to have been further increased by fixing a definite limit to the output of the distilleries on the basis of the production of the last ten years. It is estimated that these changes in the law will bring in an additional 4,000,000l., giving, without the Customs, a revenue from spirits of 10,000,000l., as against the 11,000,000l. anticipated from the monopoly.

### The Proposed Cinchona Syndicate.

In last week's issue of the *C. & D.* (p. 49) we commented briefly on the contents of the circular issued to cinchona-planters in Java by the Preanger Kina Bond. The circular has now been published *in extenso* in "De Indische Mercur" of January 4. It adds but little to the information we have published on the cinchona situation during the last few months, but as the circular gives an admirable summary of the whole position, it may be useful to give a *résumé* now. The trouble began with the formation of the German Syndicate of Quinine-makers, which, as a result of its agreement not to compete for bark, forced prices to a low level. To relieve this pressure a number of bark-producers in Java joined together to start the Bandong Quinine Factory, which undertook to buy bark at a fixed price, remunerative to planters. For a time this plan succeeded admirably, but ere long owing to over-production and to the marketing of bark of steadily increasing quinine content, the Bandong factory could no longer exercise a serious effect on the cinchona-market, in competition with other quinine-makers, and prices again fell. To remedy this state of things the planters formed what was known as the "Six Cents Syndicate." This undertook to reduce the output of bark until a minimum price of 6c. was obtainable. The quinine-makers' reply to this was a combination of European and American factories not to compete for bark, and the Syndicate soon fell through. This was the state of things at the end of 1906, when Herr Koch, after consulting brokers, merchants, and quinine-makers in Europe and America, visited Java and unfolded what is now known as the "Koch plan." Briefly this amounted to the formation of a huge combine of brokers, merchants, planters, bankers, and quinine-manufacturers to control the quinine and cinchona markets and guarantee planters a minimum price of 6c. At first all went well, and arrangements for the apportionment of bark output to each planter and of bark supply to each factory were in progress, when the Bandong factory suddenly stood out, mainly on the ground that its allotment of bark was too small. Since then the policy of the directors has been one of "masterly inactivity." The circular continues that the interests of the factory are no longer identical with those of the planters, and that, moreover, the huge stock of quinine held by the factory is a perpetual menace to all interested in cinchona and quinine. It is admitted that the factory pays a little above the market rate for its bark, but this is only of advantage to the few large undertakings that supply it, while the low price at which the Bandong quinine is sold lowers prices for the alkaloid in Europe, and forces other makers to buy bark at low rates. The remedy suggested is that already indicated—viz., that planters should combine to sell no bark to the Bandong factory until the directors agree to join the proposed combination. If that course fails the Bond recommends the drastic measure of erecting a planters' factory in Java, to be managed by planters entirely in their own interests. It is pointed out that there is little chance of new plantations independent of the proposed combine being formed, since the area suitable for cinchona is nearly all taken up, and the Government lands still available in Java are not likely to be leased. Further, no increased production outside Java is likely to occur. It is added that the capital for the new factory has been already guaranteed, and expert manufacturing skill has been secured.





### Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they are not recorded. Queries by subscribers on dispensing, legal, and miscellaneous subjects pertaining to pharmacy and its allied trades are replied to in these columns, if they are of general interest. Letters submitted to the Editor for publication (if suitable) should be written on one side of the paper only. Their publication in the "C. & D." does not imply our agreement with the opinions of the writers.

#### "A Most Misleading Statement."

Society of Apothecaries of London,  
Blackfriars, London, E.C.

January 12, 1910.

SIR,—In your report of the meeting of the Council of the Pharmaceutical Society held on the 5th inst., I notice that a reference is made to a letter addressed to the Master of the Society of Apothecaries in regard to a speech recently made by myself at a meeting of the Dispensers' Association of the Society. The report states that a reply had been received from the Society of Apothecaries that "Mr. Upton disclaims the use of the words attributed to him in the published reports." This is a most misleading statement, and one calculated not only to cause injury to myself, but also to throw doubts upon the accuracy of your valuable paper, which was good enough to furnish practically a verbatim report of what I did say upon the occasion referred to. I have, therefore, obtained the permission of the Master of the Society to make the following extract from his letter of December 14 last addressed to the President of the Pharmaceutical Society, viz:

"I observe that you state the words reported to have been used by him (*i.e.*, Mr. Upton) are as follows:

It appeared to him, as an ordinary observer, that the only striking feature of the Pharmaceutical Society's qualification was that it enabled the holders thereof to keep open shop for the vending of perfumes, silver-backed hair-brushes, sponges, etc.—in fact, it stood for anything except the dispensing and compounding of medicines.

I have been enabled to see a verbatim report of his speech, in which I have not found the words to which you refer, but I do find the following:

I believe—it is my firm opinion, in fact—that the dispenser of this Society is, or should be at any rate, the sole representative of what I should call scientific dispensing. The chemist and druggist has, unfortunately, and from circumstances for which he is not responsible, developed into a vendor of all sorts of things—scent-bottles, silver-backed brushes, sponges, photographic apparatus, I do not know all—almost anything in the world except medicine."

The verbatim report referred to is, of course, the report which appeared in your paper, and I have not and do not desire to repudiate the words attributed to me in that report. What I do repudiate, is the language attributed to me by the President of the Pharmaceutical Society, which I did not use.

I remain, sir, your obedient Servant.

A. MOWERAY UPTON

(Clerk to the Society).

#### Spirit-duty.

SIR,—The present seems to be a most favourable occasion for directing the attention of candidates for parliamentary honours to our grievances. If the last Government is returned to power we are told that "the Budget will be reinstated in every particular," and if the opposite party is victorious there will no doubt be an increased duty on alcohol. Can we not, at the eleventh hour, extract promises from candidates on both sides to give favourable consideration to the matter of a rebate on spirit used for medicinal purposes? Associations as well as individuals should exert themselves in this direction if satisfactory results are to be obtained.

Liverpool, January 10.

CHARLES SYMES.

#### "Bonus under Contract Partially Fulfilled."

SIR,—In our opinion the report in your issue of January 8 is liable to convey a wrong impression. Allow us to state:

1. That the falling clause, though not specifically mentioned in the contract note, had been agreed upon in the correspondence which ended in the contract under notice.

2. That plaintiff elected to cancel the balance of the contract rather than meet competitor's price. [This statement was made in court and reported by the *C. & D.*—EDITOR.]

His Honour held that the bonus in kind was only applicable to the full delivery of 1,000 kilos., and that we were not entitled to it on 300 kilos., even although the non-delivery of the balance was due to no fault of ours, but to plaintiff's election as explained above. He further remarked that we had not specifically claimed the bonus when agreeing to plaintiff's cancellation. We certainly were under the impression that no such reservation was necessary, as plaintiff's act amounted to a reduction of the quantity originally contracted for. The amount involved was small; still we felt compelled to insist upon a claim which we considered to be fair and in accordance with common-sense. We cannot, of course, but bow to the Judge's decision, from which, we regret to say, there is no appeal.

Your obedient Servants,

REITMEYER & Co.

63 Crutched Friars, London, E.C.,

January 11.

#### Companies and Chemists.

SIR,—Your remarks in last week's *C. & D.* concerning drug-company trading make very interesting reading, and it certainly looks as if their moon is on the wane. The wail of these "store" gentlemen against competition is extremely amusing when one compares it with the remarks made about the poor private chemist who in the early days of "store" trading was held up as a sort of highwayman who had been fleecing the public for years.

Yours faithfully,

F. V. RYMER, Ph.C.

Wellingborough, January 10.

*Progress* (42/69) controverts the statements by the chairman of Parke's Drug-stores, Ltd., regarding the cutting methods of their competitors, and accuses the Stores of drawing trade by giving special bonuses on purchases one day a week. He adds:

"During my stay with Boots I covered a wide area as relief manager, embracing many branches between White-chapel and Acton, Brighton, and Aldershot, and I can certainly say I never saw any insane cutting of prices started by Boots or any intensely selfish policy of drawing away customers from competitors' shop by lowering the trade by giving away kettles, etc. I was treated, while in the employ of this company, as a gentleman and a man—not a mere automatic arrangement. The hours are good, pay is good, and work goes on smoothly and pleasantly day by day. They have a truly wonderful system, a system that has done more for the popularising of the chemist and the sale of pharmaceutical products than any system yet invented. I hold no brief for Messrs. Boots (I left them about two years ago), but I speak as I found things."

#### Subscribers' Symposium.

##### Napoleon's Pills.

A *Subscriber* (40/12) points out a rather curious coincidence in the "Pill-book" of the British Drug Houses, Ltd., which was noticed last week. The formula of and quotation for Napoleon's Pectoral Pills "appear in it as No. N1812, and reminds one that the almost conqueror of Europe may have laid the foundation for their necessity during his historical Russian tour of that ever-to-be-remembered year—1812."

##### A Pharmaceutical Coal-box.

A provincial chemist sends us a photograph of a lemon-oil copper which he has had converted into a coal-box. The method of doing so may be of interest to our readers. The top of the copper was carefully melted off at the soldered joint, then the edge of it was hammered out a trifle for easy fitting. The neck was removed from the top, and a small door-handle soldered in its place. To give strength to the body, which was rather flexible, a stout brass wire was soldered on the inside edge of the copper. Bronze handles were riveted to the sides, and the whole of the exterior well polished by hand. [This is not an uncommon manner of utilising these coppers.—Ed. *C. & D.*]



*Ung. Acid. Carbolic. B.P.*

When made according to the B.P., the glycerin holding in solution the carbolic acid of this ointment is apt to separate after a short time. What is the best means of preventing this separation? We usually remelt the ointment and stir thoroughly until cold, but the trouble recurs after a short time. Kindly advise.—*Jas. R. Hunnex* (Erie, B.C.).

[In our experience we have not found this separation occur when the ointment is made according to the Pharmacopœia, having regard to the required melting-points of the hard and soft paraffins. We are aware of the complaints which have from time to time been made in regard to separation, and we have in consequence knocked the ointment about, left it exposed, and cut V's out of the middle of it so as to encourage it to separate. In a damp atmosphere minute drops of clear liquid form on the surface. These, however, are only moisture attracted by the hygroscopicity of the glycerin. Wool-fat gives off moisture from its surface. If your climate be damp substitute an ounce of anhydrous wool-fat for the same quantity of the paraffin ointment. We are speaking in terms of what the Pharmacopœia defines as ordinary temperatures—10° to 21.1° C. If the temperatures with you be higher than 21° C., an increased proportion of hard paraffin, so as to maintain the firm consistence of the ointment, may serve your purpose.]

*What is the Good of Salt?*

I have noticed that people who use salt sparingly are often afflicted with chilblains, due, I suppose, to there being a deficiency of salt in the blood. Sir Almroth Wright proved that chilblain sufferers have less calcium in the blood than the average, and sparing use of salt may account for this. Any way, my friends who are troubled with chilblains do not take salt at their meals. Since I began to put "Cerebos" on my table I have had no chilblain grumblers at it, I suppose partly on account of the salt and partly on account of the lime which it is understood to contain.—*A Chemist's Wife*. (38/64.)

I have to thank your three correspondents for their views on the salt question, although none of them answer the query originally put: "What effect has abstention from inorganic chloride of sodium on the human body?" With regard to "Rusticus's" experience, I may say that I never boil my eggs. Why coagulate the albumen with excessive heat merely to give the digestive juices the trouble of reliequifying it again? "M.B.'s" remarks seem to me to be the common-sense view of the subject, while as to "M. T.," he has evidently overlooked the fact that I inquired about inorganic or mineral salt, not the salt which Nature supplies so freely in her food-products. It is because I knew of the abundance of these natural salts in natural foods, and of all the facts stated by him, that I wondered wherein lies the sense of adding coarse raw salt to our foods when Nature supplies in abundance a more palatable, properly proportioned preparation manufactured in her own laboratory. I may add that the only raw salt I swallow is that found in the cheese which I sometimes eat—all my other foods are innocent of it, and it may interest your readers to know that since dropping added salt I have become entirely free from an eczema which previously troubled me every spring. Influenza, rheumatism, and colds have now no terrors for me, although I have entirely discarded all woollen underclothing, and (one more advantage) I find that my salt-free palate can now distinguish delicate natural flavours in foods which I never dreamt of before.—*Saline*. (115/12.)

**Legal Queries.**

"Consult the legal information in "The Chemists' and Druggists' Diary," 1910 before writing about your difficulty.

*Practitioner* (41/57).—"Optologist" and "Oculist" are not by English law restricted in use.

*Curfew* (40/10).—You do not tell us what the conditions of your engagement were, but the dismissal appears to have been justified, according to your own narrative of the circumstance upon which it was based.

*W. F.* (39/33).—Net personality of a person's estate is the amount left after (1) payment of all debts and charges on the estate and (2) deduction of real property. The latter usually consists of land and freehold property.

*R. D.* (32/4).—An Irish subscriber puts this case: Security having been given for rent to a friend, the friend gives notice to leave the house verbally; agent now claims for rent for subsequent quarter, on the ground that the notice was not written, and therefore not binding. Is this correct?

[In England a parol notice to quit is generally sufficient, and we should think it would be the same in Ireland. The

notice must in substance and effect inform the landlord that the tenant will quit and deliver up possession of all the demised premises at the proper time. We should leave the agent to take such steps as he may think necessary.]

*Qualified Dispenser* (136/13).—Your friend the grocer is quite wrong when he says that he can sell "known, admitted, and approved remedies" because he holds a patent-medicine licence. He must be a registered chemist, or have served a regular apprenticeship to a chemist in order to enjoy the exemption; indeed, the Board of Customs and Excise now say:

"The exemption does not apply to sales by an unqualified person. Nor is the benefit of the exemption extended to any medicines, etc., sold by a limited liability company, co-operative society, or other corporate body, unless the provisions of Sections 3 (4) (a) and (b) of the Poisons and Pharmacy Act, 1908, are in all respects complied with."

Note, however, that quinine-and-iron tonic and Bland's pills are not dutiable medicines unless they are held out and recommended for the cure of human ailments, and there is nothing to prevent grocers selling medicines which are not dutiable, unless they contain scheduled poisons.

*Messrs. Raimcs & Co.* (York) write: "On p. 64 of your last issue, under Legal Queries ("Subscriber," 31/19), the title "balsamic" is mentioned as involving liability to stamp-duty. The label of one of our own preparations ("Bronchial Balsamic Wafers") was marked "Not liable to duty" by the Inland Revenue people a few years ago. On p. 836 of "Pharmaceutical Formulas" we find under the heading of non-dutiable titles Balsamic Healing Ointment, Balsamic Pectoral Mixture, and Balsamic Throat Pellets. Will you kindly explain? Either the Department have altered their views, or the Magistrate's decision mentioned is incorrect, or otherwise there must be some other circumstance which has affected it." [Our reply was a brief statement of the facts. On April 23, 1907, the Board of Inland Revenue took proceedings against a provincial firm for the sale unstamped of "Red Lung-balsam," in respect to which proprietary rights were claimed (see *C. & D.*, May 4, p. 667). Judgment was not given until May 3, and was reported in our issue of May 11, p. 907. The Magistrates were of opinion that "the word 'Balsam' in itself indicates a curative or remedial agent possessing softening and soothing properties which allay the irritation of the organ to which it is applied and thus ease pain." It was intended that the case should be carried to appeal, but this was abandoned. The Board of Inland Revenue, on July 3, 1907, wrote a letter to us stating that in future the conjunction of the word "Balsam" with an organ of the body would be regarded as involving the recommendation of the article sold under labels, etc., bearing these words as being beneficial for disorders of the organ mentioned. The "Pharmaceutical Formulas" referred to is the edition published in 1905, before the foregoing decision was obtained and the Board's ruling arrived at. A paragraph embodying the facts has since been given in the *C. & D. Diary*—see 1910, p. 232.]

**Miscellaneous Inquiries.**

As we do not in this section repeat information given during the past twelve months, inquirers should refer to the copies mentioned. Back numbers for the past five years can generally be obtained from our office at the published prices.

*Lactis* (31/15).—Read the note on soured milk in the *C. & D. Supplement*, January 8, p. 64. You will get full directions for the preparation of the milk with the culture tablets which you use to make it.

*F. J. H.* (24/21).—DIAGRAM LANTERN-SLIDES for showing election results.—There are several methods of preparing lantern plates for writing on with stylus, pencil, or ink. (1) The simplest is to fix, wash, and dry a sensitive lantern plate, flow over the surface ox-gall, and again dry. The plate can then be written on with ink. (2) Coat a plain lantern plate with the following or any retouching varnish, when the surface can be written on with a black-lead pencil or black chalk:

Sandarac	...	...	...	10 grains
Mastic	...	...	...	10 grains
Ether	...	...	...	1 oz.
Benzol	...	...	...	100 minims

(3) The method that is preferred is that by which white writing is shown on a black background, the writing being done with a stylus or knitting-needle. Suitable black varnish can be bought ready-made or can be made as follows:

Syrian asphalt	...	...	5 oz.
Venice turpentine	...	...	1 oz.
Oil of turpentine	...	...	1½ oz.
Linseed-oil varnish	...	...	1½ oz.



Mix the asphalt, Venice turpentine, and turpentine by cautiously heating until the asphalt is dissolved, then add the linseed-oil varnish and sufficient lampblack to make the product of the consistence of thick cream. The well-cleaned lantern-slide is dabbed with this, dried, and rubbed over with a mixture of lampblack and mucilage. (4) A similar result is obtained by adding lampblack to a mixture of Canada balsam 1 part, oil of turpentine 2 parts, the object being to produce an opaque black coating which will not chip under the stylus.

**T. M. (12/3).—SOLUBLE ESSENCE OF ANISEED.**—The proportions are as follows:

Oil of aniseed	...	...	6 oz.
Rectified spirit	...	...	4 pints
Distilled water	...	...	3 pints

Mix. Shake kaolin with the liquid and filter bright.

**Central (20/48).—WATER IN TURPENTINE.**—Water is not soluble in turpentine, and if added would separate on standing. The adulterants are rosin spirit and petroleum products, but we are not sure from your letter what it is you require.

**L. R. D. (27/70).—TINCTURA IRIDIS.**—As used in perfumery, this is prepared as follows:

Orris-root in No. 40 powder	...	3v.
Spirit	...	a sufficiency

Macerate the orris in 10 oz. of spirit for two days, then pack in a percolator, and allow all the liquid to percolate through, adding more spirit until 20 oz. has been used. Finally, displace as much as possible of the spirituous tincture with water. There is also a tincture of orris in the French Codex (1 in 5 of 80-per-cent. alcohol), while the eclectic tincture of blue flag (*Iris versicolor*) is made by macerating  $\frac{1}{2}$  oz. of the rhizome in 16 oz. of rectified spirit.

**Law (18/52).—OFFICE ADHESIVE.**—The following is a good formula, but we have not figured out the cost, as you can readily do that from the price-lists of wholesale houses:

Russian glue	...	10 lb.
Brazilian isinglass	...	10 oz.
Liquid glucose	...	$\frac{1}{2}$ gal.
Acetic acid	...	18 lb.
Distilled water	...	$\frac{1}{2}$ gal.

Soften the glue and isinglass in the water over-night, heat on a waterbath with the acetic acid and glucose till homogeneous. Less water can be used if desired.

**C. A. S. (13/3).—PERCENTAGE SOLUTIONS.**—We think you are referring to a table printed in *The Chemists' and Druggists' Diary*, 1895. A copy of this *Diary* could be obtained through an advertisement in the Coloured Supplement.

**Lymph (Pretoria) (30/67).—(1) BOOK ON MANUFACTURE OF VARNISH.**—Livache's "Manufacture of Varnishes," vol. ii. (Scott, Greenwood & Co., 10s. 6d.), was reviewed in the *C. & D.*, July 24, 1909, p. 124. There is also a chapter on this subject in "Pharmaceutical Formulas." (2) **MANUFACTURE OF ACETIC ACID.**—This is dealt with in Brant's "Practical Treatise on the Manufacture of Vinegar" (Low, Marston & Co., 25s.). (3) **INDUSTRIAL CHEMISTRY** is best dealt with in Thorpe's "Dictionary of Applied Chemistry," 3 vols. (Longmans, 7 guineas). (4) **CHEMICAL ENGINEERING.**—Grossmann's "Elements of Chemical Engineering" (Griffin & Co., 3s. 6d.); Davis's "Handbook of Chemical Engineering," 2 vols. (Davis Bros., 42s.). (5) We shall be glad to put you into communication with the makers of chemical plant and dealers in sodium acetate if you decide to take up the manufacture of acetic acid.

**Aspirin (30/20).—RHEUMATISM BATH-SALTS.**—There are three forms of this: (1) sodium chloride, in imitation of the Droitwich salt-baths (4 to 8 oz. per gal.); (2) an alkaline salt, such as sodium carbonate (one to two teaspoonfuls per gal.); and (3) effervescing salts. The last-named consist of separate packages of sodium bicarbonate and sodium acid sulphate, the proportions being  $\frac{1}{2}$  oz. and  $\frac{1}{4}$  oz. respectively to each gallon of water. Nos. 1 and 3 may be combined to form one bath, in which case the salt must be first dissolved in the water before adding the effervescing ingredients. Calcium chloride is sometimes used in baths for rheumatism, but, owing to its hygroscopic nature, it is not adapted for packing as a proprietary article.

**A. J. D. (126/34).—INDIAN POISONS.**—We cannot trace the recent publication of any book dealing especially with Indian poisons. The matter is sometimes referred to at length in official reports, and there are several works on Indian plants from which information could be gleaned.

**Verb. Sap. (21/69).—CHEAP ADHESIVE.**—There is a wide range of formulæ for various pastes and mucilages in "Pharmaceutical Formulas," but we think that for use in cardboard-box factory an adhesive with a glue basis would probably be found the most suitable. The following is a recipe used in newspaper printing-works for sticking in the supplements in quickly printed work:

Tub glue	...	...	12 lb.
Acetic acid	...	...	3 pints
Water	...	...	1 gal.
Formalin	...	...	$\frac{1}{2}$ oz.

Melt the glue with the water, evaporate off about half the water, add the acetic acid, cool, and finally stir in the formalin. In some varieties of this adhesive fish-glue is employed, while glucose is occasionally found as one of the ingredients.

**H. E. B. (19/62).—WHITE LINIMENT.**—We should have liked to have had fuller particulars of the formulæ you have tried. See the criticism of a recipe in the *C. & D.*, September 18, 1909, p. 486.

**H. E. (40/19).—SKIN-TABLET.**—The following is from "Pharmaceutical Formulas," p. 27:

Vaseline	...	...	3xvj.
Hard paraffin	...	...	3iv.

Melt, stir till creamy, and add the following filtered solution:

Peruvian balsam	...	...	5ij.
Oil of citronella	...	...	xxij.
Oil of mirbane	...	...	mv.
Rectified spirit	...	...	3ss.

Pour into a tray to the depth of  $\frac{3}{8}$  in., and when cold cut into pieces  $\frac{1}{4}$  in. in diameter.

**F. A. S. (10/11).—Muter's "Analytical Chemistry"** (Baillière, 6s. 6d.) covers the qualitative and quantitative analyses so far as the pharmaceutical examinations are concerned. Other books on the subject are Clowes and Coleman's "Elementary Practical Chemistry," Part 2, for qualitative work (Churchill, 3s. 6d.); Weston's "Scheme" (Longmans, 2s.), which is good for organic qualitative; and Clowes and Coleman's "Quantitative Chemical Analysis" (Churchill, 10s.), for quantitative inorganic work.

**W. J. E. (41/40).—BRAWN-SEASONING:**

White pepper	...	...	3iij.
Cayenne pepper	...	...	3ss.
Oil of lemon	...	...	3ss.
Powdered cloves	...	...	3ss.

This is sufficient for a boiling of twenty pigs' heads.

**T. A. (39/44).—Cod-liver oil** is used for fattening calves, pigs, and other farm animals. Get quotations for it from wholesale houses who advertise in the *C. & D.*

## Our Retrospect.

(From the "*C. & D.*," January 14, 1860.)

### Trade Report.

Business presents the usual features which characterise this period of the year. Future prospects, we are happy to report, are favourable—books being well filled with orders for the new year. Reviewing the past year, we find that it has been unprecedentedly prosperous. Sound trade to a similar extent has never been done in any one twelvemonth before. The fluctuations in the prices of chemicals have not been great, but the tendency, especially towards the close of the year, has been towards a decline. Nothing but the continued political excitement on the Continent, which has at last culminated in our Volunteer movement at home, could have prevented a still larger business being done. But while, on the one hand, we regret the cause and its effects, we must not forget that it has saved us from we know not what perils in the shape of speculations. With money the perfect drug it has been in the market, it is surprising how little speculation has taken place. If 1860 opens smoothly, if the Congress goes off satisfactorily, we may expect a saturnalia. Already we see symptoms of the coming change in the proposed City Railways, the Shipping Insurance Companies, the Newspaper Publishing, the Lime-Light Producing, and other associations recently introduced. Certain it is that holders of capital will not long remain satisfied with the present state of affairs, which yields them from 1 to 3 per cent.; and all we can hope for is that the channels opened for its use may be legitimate.



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By Royal Warrants to  
their Majesties

The

## KING

and the

## QUEEN

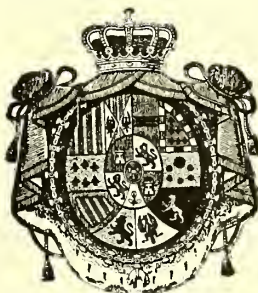


TO H.M. THE KING.



TO H.M. THE QUEEN.

And also



to their Majesties

The

## KING and QUEEN of SPAIN.

AWARDED 22 PRIZE MEDALS.

HOLDERS OF THE

ONLY GRAND PRIX and the ONLY GOLD MEDAL

EVER AWARDED SOLELY

## For TOILET SOAP.



# "JOHN BULL" MALT EXTRACT

## "PACO" DIASTASE BRAND.

*A Malt Extract that Chemists can sell with credit and with profit.*

	1 lb.	2 lb. (32 ozs.)		1 lb.	2 lb. (32 ozs.)
Selling Price ...	1/6	2/6	Price to Chemists ...	1/-	1/9
Protected Price ...	1/4	2/4	Minimum Chemists' Profit	4d.	7d.
				33 1/3%	33 1/3%

### "The Chemist and Druggist's" Testimony.

"PACO" DIASTASE MALT EXTRACT.—Messrs. Paine & Co., Ltd., Maltsters and Malt Extract Manufacturers, St. Neots, whose "John Bull" Malt products are well-known to Pharmacists, have recently introduced a malt extract of high diastatic value, which they guarantee to have a power of 100° Lintner. We have examined a sample of this extract and found it to be excellent in flavour and appearance. Its diastatic activity on the Lintner scale is 146°—a strength which is exceptionally high, since it is equal to an extract of 1800° tested by the more empirical B.P. Codex method. This result has been corroborated by Mr. E. R. Ling, F.I.C., F.O.S., a well-known authority on malt, who informs us that he has not met with an extract of higher diastatic power. Messrs. Paine & Co. inform us that they are putting the extract on the market in 1-lb. and 2-lb. jars, and they will be glad to furnish buyers with further particulars on application.

### "The Pharmaceutical Journal" says:—

MALT EXTRACT.—An examination of a sample of "John Bull" Malt Extract ("Paco" Diastase Brand), received from Messrs. Paine & Co., Limited, St. Neots, shows that it is exceptionally high in diastase and in total nitrogenous constituents. It is of agreeable flavour and excellent appearance. The figures obtained by us on analysis are:—

Total Solids	79.6 per cent.	Diastase Power in Units of "Codex," Test 1,724, in Degrees Lintner 132.	
Reducing Sugar, calculated as maltose	70.0 per cent.	Ash	1.6 per cent.
Protein, calculated from nitrogen found	7.9 per cent.	Messrs. Paine & Co., Limited, also sent us a sample of malt extract, specially prepared, to show what they could do in the manufacture of still higher diastase strength, and the figures obtained on examining this sample are:—	
Total Solids	79.4 per cent.	Diastase Power in Units of "Codex," Test 2525, in Degrees Lintner 210.	
Reducing Sugar, calculated as maltose	65.4 per cent.	Ash	1.8 per cent.
Protein, calculated from nitrogen found	8.5 per cent.	They inform us that their "Paco" Diastase brand is being placed on the market in 1 lb. and 2 lb. jars at protected prices, which show a profit to the retailer of 33 1/3 per cent.	

This analysis shows "Paco" to be far superior to all other makes as shown in the analyses published in the *British Medical Journal* of November 20 (pp. 1477-1478), to which readers should refer, or to whom we will send a copy on receipt of trade card.

**PAINE & CO. MALTSTERS AND MALT EXTRACT MANUFACTURERS ST. NEOTS, Huntingdonshire.**

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Acetanilid, Chloral-Hydrate, Eserine, Hydroquinone, Pilocarpine,  
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A showcard, a showbill, a show outer, or a poster is worded whether a good profitable business can be negotiated, with a series of

## COMPRESSED TABLETS

under ailment names.—(P.J.F.)

Of course we assure you of the efficiency of drugs and excellence of make. Then we may proceed to argue that mouth to mouth recommendation was, but is not. Now, one requires a more speedy medium whereby businesses shall be built.

The passer by your window requires to be manufactured into a customer. Carefully built, persuasive, and neat showcards, window display outers, or display matter in general will do this, so long as the stamp of good argument is there.

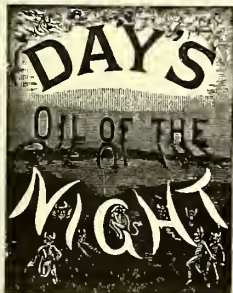
One little realises the business that accrues in this manner. Selling is a science which can be developed by show material.

## We Make Tablets and We Give Show Matter.

We have an advertising side to our business. We realise when Tablets are sold to you something more is needed. Another journey then remains—to the public. This we consider, and we give you a style to yourself in your own district. Write for our list.

**W. B. Cartwright, Ltd.,** COMPRESSED TABLET MAKERS,  
DEWSBURY ROAD, LEEDS.

# DAY'S OIL OF THE NIGHT



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"A positive pain killer."—DR. GORDON STABLES, R.N.

Advertised Prices ... 1/1½ and 2/9 per bottle.

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CARRIAGE PAID.

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# PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

Acetanilide, B.P., 1 cwt. @ 11½ lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/3 lb.  
 \*Acet. Ipecac. B.P., 7 lbs. @ 1/3 lb.  
 \*Scilla, B.P., 7 lbs. @ 3d. lb.  
 \*Acetone, 6 lbs. @ 1/2 lb.; 1 lb. @ 1/4 lb.  
 \*Acid Acet. Glacial, 99%, Carboys 144 lbs. @ 4½ lb.; 12 6-lb. bots. @ 6½ lb.; 6 lbs. @ 8d.  
 Acid Acetylo-Salicyl, 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.  
 "Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.  
 "Borio Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; levied. 3/- cwt. extra.  
 Acid Carbol Xtls., 39/40; 56 lbs. @ 5d. lb.; 10-lb. Tins @ 5/- each; Detached Cryst. 8/- each; 86 1-lb. Bots. @ 8½ lb.; Single Bots. 11d. lb.; Detached Cryst. 1 lb. @ 1/1 lb.; Orude Black, 45 Gall. Casks @ 10d. gall.; 1 Gall. Tins @ 1/5 each.  
 Acid Oxalle Cryst., 5 cwt. @ 3½ lb.; 1 cwt. @ 3½ lb.; 14 lbs. @ 3½ lb.  
 "Phosph. Dil. B.P., 8 lbs. @ 4½ lb.  
 "Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 3/- lb.  
 "Sulphur, Coml., cases, 4 2-gal. jars, 17/- each; 20 cases @ 16/- each.  
 "Sulph. Aromat. B.P., 6 lbs. @ 3/8 lb.  
 "Tannin, B.P., 7 lbs. @ 2/2 lb.  
 "Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 9½ lb.; 7 lbs. @ 10½ lb.; parv. 4d. lb. extra.  
 Ammon. Carb. Imp., 3 cwt. @ 3½ lb.; 28 lbs. @ 4½ lb.; 7 lbs. @ 5d. lb.; powder. 4d. lb. extra. 5 cwt. lots free delivered to railway station in U.K.  
 Ammon. Chlor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.

Codeina, 1 oz. @ 12/8 oz.; Phosph., 1 oz. @ 10/11 oz.; Hydrochlor. or Sulph. 1 oz. @ 11/9 oz.  
 Cream Tartar, 98% powder, 1 cwt. @ 74/- cwt.; 7 lbs. @ 9d. lb.  
 Oreta c. Camph., 7 lb. @ 8d. lb.  
 "Gall. Pulv., in sacks, 10 cwt. @ 6/- cwt.; 1 cwt. @ 7/- cwt.; 14 lbs. @ 1½ lb.  
 Oreta Preparata, 7 lbs. in box, 9d. each.  
 Emulsio Ol. Morrhuæ, 10 lbs. @ 6½ lb.  
 Eserine Sulph. in 15 grain tubes, 3/- each.  
 Ess. Bergam. (Oil), 12 lbs. @ 14/- lb.; 1 lb. @ 15/6 lb., not guaranteed absolutely pure.  
 Ess. Limonis (oil) original coppers, 12 lbs. @ 3/- lb.; 6 1-lb. bots. @ 4/- lb., not guaranteed absolutely pure.  
 \*Ess. Moschi (not artificial), 5 lb. @ 10/31b.; 1 lb. @ 11/3 lb.  
 Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/2 lb.  
 \*Ext. Ergot. Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.  
 Ext. Filicis Liq., P.B., 9 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.  
 Ext. Gent., P.B., Solid, 1 cwt. @ 8½ lb.; 7 lbs. @ 9½ lb.  
 "Glycerrh. Liq. B.P., 6 lbs. @ 1/4½ lb.  
 "Hamamelis, Liq. P.B., 5 lbs. @ 3/5 lb.  
 Ext. Hyocyam., Solid, B.P., 3 lbs. @ 5/6 lb.; 1 lb. @ 5/11 lb.  
 \*Ext. Ipecac. Liq. P.B., 5 lbs. @ 10/6 lb.; 1 lb. @ 11/3 lb.  
 "Malt. c. Ol. Jecoris, 10 lbs. @ 5½ lb.  
 \*Ext. Nuels Vom. Liq. B.P., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.  
 "Opil Solid P.B., 1 lb. @ 39/- lb.

Lapis Pumicis, fine powder, 2 cwt. @ 8/- cwt.; 7 lbs. @ 1½ lb.; lump, 2 cwt. @ 12/- cwt.; 7 lbs. @ 3d. lb.  
 Licorice Juice, 4 and 2 oz. Sticks, 5 cwt. @ 57/- cwt.; 1 cwt. @ 58/- cwt.; 28 lbs. @ 7d. lb.; 7 lbs. @ 7½ lb.  
 \*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.  
 \*Lin. Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @ 1/8 lb.  
 Lin. Camph. P.B., 40 lbs. @ 10½ lb.; 9 lbs. @ 11d. lb.  
 Lin. Sapo Meth., 9 lbs. @ 7d. lb. @ 11½ lb.  
 Lin. Tereb. Acet. B.P., 9 lbs. @ 1/- lb.  
 Linseed c. Oil, Crushed, 3 cwt. @ 18/- cwt.; 1 cwt. @ 18/6 cwt.  
 \*Liq. Ammonii Acetatis Cono. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 10½ lb.  
 \*Liq. Ammon. Aromat., 6 lbs. @ 9d. lb.  
 "Antim. Chlor. Pure, 8 lbs. @ 6½ lb.  
 "Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb. [1 lb. @ 7d. lb.]  
 "Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.  
 "Bismuth. P.B., 6 lbs. @ 10½ lb.  
 "Copaiba Bucha st Cubeb, 5 lbs. @ 2/6 lb.; 1 lb. @ 3/10 lb.  
 "Eaton, p.s. 1-3, B.P., 1 lb. @ 3/- lb.  
 "Ferri Dialysatus, 6 lbs. @ 7d. lb.  
 "Ferri Iod. p.s. 1-7, 1 lb. @ 5/9 lb.  
 "Ferri Perchlor. Fort. P.B., 7 lbs. @ 4d. lb.  
 "Ferri Phosph. Co. p.s. 1-7, 7 lbs. @ 1/6 lb.  
 "Hypophosph. Co. p.s. B.P.C., 1 lb. @ 3/4 lb.  
 "Iodi Fort. B.P., 5 lbs. @ 4/9 lb.  
 "Morphine Acet. or Hydrochlor. P.B., 6 lbs. @ 2/7 lb.  
 "Opil Sed., 5 lbs. @ 3/6 lb.  
 "Plumbi Subacet., B.P., 7 lbs. @ 2½ lb.  
 "Pruni Virg. p.s. 1-7, 5 lbs. @ 2/2 lb.

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Bals. Copaiba pure, 44 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.  
 Bismuth, P.B. Carb., 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.  
 Boracic Mixture, 1 cwt. @ 38/- cwt.  
 Borax, 1 cwt. @ 16/9; powder 1/- extra  
 Butyl Chloral Hydras, P.B., 1 lb. @ 8/10 lb.  
 Caffeine, P.B., 1 lb. @ 14/- lb.  
 Caffeine Cit. B.P., 1 lb. @ 10/- lb.  
 Calamins, powder, fine pink, 5 cwt. @ 9/6 cwt.; 1 cwt. @ 10/6 cwt.; 7 lbs. @ 2d. lb.  
 Calamine B.P., 1885, 7 lbs. @ 9d. lb.  
 Calofil Carb. precip., 5 cwt. @ 14/6 cwt.; 1 cwt. @ 17/- cwt.; 28 lbs. @ 19/- cwt.  
 "Hydras, P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 8d. lb.  
 Camphor, English Flowers, "not artifical," 5 lbs. @ 1/10 lb.; ½ oz. 7 lbs. @ 1/11 lb.; ½ oz.; 7 lbs. @ 2/3½ lb. Orude, good white, about 93% as imported, 140 lbs. @ 1/4 lb.; 10 lb. @ 1/5 lb.  
 Capsicine, soluble, 1 lb. @ 6/6 lb.  
 Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 14/- cwt.; 28 lbs. @ 2d. lb.  
 Carmine, Finest, 1 lb. @ 17/- lb.; No. 2, 1 lb. @ 13/- lb.  
 Cera Alba, B.P., White Moons, 1 cwt. @ 1/6½ lb.; 28 lbs. @ 1/7½ lb.; 4 lbs. @ 1/8 lb. Flav. 1 lb. @ 1/8 lb.; 28 lbs. @ 1/6½ lb.; 4 lbs. @ 1/7½ lb.; 1 oz. ½ oz. Tabs., 7 lbs. @ 1/7½ lb.  
 Octacetum: No. 1, fine white, 64 lbs. @ 1/3 lb.; 7 lbs. @ 1/4½ lb.; powder, 7 lbs. @ 1/10 lb.; Chloral Hydras Cryst. B.P., 7 lbs. @ 4½ lb.; 1 lb. @ 4/6 lb.  
 \*Chlorodyne, 5 lbs. @ 1/11 lb.  
 \*Chloroform, pure B.P., 12 8-lbs. @ 1/7½ lb.; 5 lbs. @ 1/8½ lb.; 6 1-lb. bots. @ 1/10½ lb.  
 Chlorophyll, 7 lbs. @ 5/- lb.; 1 lb. @ 5/9 lb.  
 Cossaline Hydrochlor. B.P., 26 ozs. @ oz.; 4 ozs. @ 7/10 oz.; 1 oz. @ 8/- oz.

\*Ext. Opil Liq. B.P., 5 lbs. @ 3/11 lb.; 1 lb. @ 4/2 lb.  
 "Quassia, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.  
 Ext. Sarsa Co. Solid, 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.  
 Ferri Ammon. Cit., P.B., 28 lbs. @ 1/4½ lb.; 7 lbs. @ 1/7 lb.  
 Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.  
 Ferri et Quinina Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3½ oz.; 25 ozs. @ 3½ oz.  
 Glycerin. Opt., D.D., 1-260 P.B., 1 cwt. @ 99/- cwt.; 56 lbs. @ 100/- cwt.; 12 lbs. @ 1/1½ lb.  
 Hexamethylenetetramine, 7 lbs. @ 2/- lb.; 1 lb. @ 2/3 lb.  
 Honey, fine White Set, Jamaica, 3½ cwt. @ 36/- cwt.; 28 lbs. @ 47/- cwt.; Californian, 56 lbs. @ 56/- cwt.; 7 lbs. @ 8d. lb.  
 Hydrokinone, 7 lbs. @ 3/- lb.; 1 lb. @ 3/4 lb.  
 Ichthyol Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.  
 \*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/1 lb.  
 "Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.  
 "Bacha Conc., 1 to 7, 6 lbs. @ 1/3 lb.  
 "Calumbæ Conc., 1 to 7, 6 lbs. @ 1½ lb.  
 "Caryoph. Conc., 1 to 7, 6 lbs. @ 1½ lb.  
 "Cascarilla Conc., 1 to 7, 6 lbs. @ 1/2 lb.  
 "Cinchona Acid, 1 to 7, 6 lbs. @ 1/7 lb.  
 "Gentiana Conc., 1 to 7, 6 lbs. @ 1/7 lb.  
 "Quassia Conc., 1 to 7, 6 lbs. @ 9d. lb.  
 "Rhei Conc., 1 to 7, 6 lbs. @ 1/5 lb.  
 "Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.  
 "Senegæ Conc., 1 to 7, 6 lbs. @ 2/- lb.  
 "Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.  
 Iodoform Pulv. B.P., 7 lbs. @ 12/- lb.; 3 lbs. @ 12/4 lb.; 1 lb. @ 12/7 lb.  
 Iodum. resub. B.P., 7 lb. @ 10/3 lb.; 1 lb. @ 10/9 lb.  
 Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb. Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

\*Liq. Rheados pro syr., 1 to 7, 5 lbs. @ 1/11 lb.;  
 "Rhei p.s. 1-7, 6 lbs. @ 2/2 lb.  
 "Santal Co., 1 lb. @ 3/- lb.  
 "Senna Dulc., 6 lbs. @ 1/4 lb.  
 "Sennæ pro Syr. 1-7, 6 lbs. @ 2/- lb.  
 "Strychnina, Hyd. B.P., 6 lbs. @ 1/6 lb.  
 "Tolut. pro Syr. 1-7, 6 lbs. @ 1/3 lb.  
 "Trinitrini B.P. 1 lb. @ 6/1 lb.  
 Lithii Carb., P.B., 28 lbs. @ 2/- lb.; 7 lbs. @ 2/2 lb.; 1 lb. @ 2/4 lb.  
 "Citras, B.P., 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/9 lb.; powder 3d. lb. extra.  
 Mag. Calc. Leviss, 56 lbs. @ 8d. lb.; 5 lbs. @ 10d. lb.; 1 lb. @ 1/- lb.  
 Mag. Calc. Pond., 7 lbs. @ 1/10 lb.; 1 lb. @ 2/- lb.  
 Mag. Carb. Pond., 56 lbs. @ 6½ lb.; 7 lbs. @ 7½ lb. [4d. lb.]  
 Mag. Carb. Lewis, 70 lbs. @ 3d. lb.; 7 lbs. @ 1 lb.  
 Morphine Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 8/- oz.; 16 oz. @ 8/1 oz.; 8 oz. @ 8/3 oz.; 1 oz. @ 8/7 oz.; Pur. Precip. Bimeconate or Tart. 1 oz. @ 10/10 oz.  
 Morphine Diacetyl, 4 oz. @ 11/9 oz.; 1 oz. @ 12/6 oz. Hydrochlor., 6d. per oz. less.  
 Ol. Cocoa Nucls. finest White, 80 lbs. @ 48/6 cwt.; 40 lbs. @ 5d. lb.  
 Ol. Encalypt., B.P., 1 cwt. @ 1/1 lb.; 28 lbs. @ 1 lb.; 9 lbs. @ 1/3 lb.  
 Ol. Gerani Gall. Opt., 1 lb. @ 18/6 lb.; 8 1-oz. bots. @ 1/11 oz.; 1 oz. @ 2/1 oz.; Turc., 1 lb. @ 9/- lb.; 4 oz. @ 12/6 lb.  
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" Boracis, B.P. ... 6 lbs. 1/2 lb.	" Ferri Hypophosph. Fort. B.P.C. ... 1 lb. 2/- lb.
" Pepsin. B.P. ... 6 lbs. 2/6 lb.; 1 lb. 2/9 lb.	" " Iodid. pro. Syr. 1-7 1 lb. 6/- lb.
Gum Acacia Turc. Elect (Bold) 7 lbs. 11d. lb.	" Ferri Perchlor. Fort. B.P. 9 lbs. 4d. lb.
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" " Pulv. No. 1 ... 7 lbs. 11d. lb.	" Iodi Fort. B.P. ... 5 lbs. 4/9 lb.
" " " No. 2 ... 7 lbs. 9d. lb.	" Magnes. Carb. B.P. ... 1 gln. 3/- gln.
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" Gwaiici ... 1 lb. 1/2 lb. Pulv. 1/8 lb.	" " Hydrochlor B.P. 6 lbs. 2/3 lb.
" Myrrh Parv. ... 1 lb. 1/4 lb. Pulv. 1/4 lb.	" Opii Sedativus ... 1 lb. 2/8 lb.
" Tragacanth. Elect ... 1 lb. 3/2 lb.	" Papaveris pro Syr. 1-3 6 lbs. 1/2 lb.
" " Pulv. Opt. 7 lbs. 3/4 lb.; 1 lb. 3/7 lb.	" Plumbi Subacet. Fort. B.P. 7 lbs. 3d. lb.
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Hydrarg. Ammon. B.P. ... 7 lbs. 3/3 lb.; 1 lb. 3/5 lb.	" Rhei pro Syr. 1-7 ... 6 lbs. 1/8 lb.
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" Buchu Conc. 1-7 ... 6 lbs. 1/6 lb.	" Sulphas B.P. ... 1 cwt. 5/9 cwt.
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" Quassiae Conc. 1-7 ... 6 lbs. 9d. lb.	" Sulphas Pulv. ... 8 ozs. 8/2 oz.; 1 oz. 8/4 oz.
" Rhei Conc. 1-7 ... 6 lbs. 1/3 lb.	" Tartras B.P. ... 8 ozs. 10/2 oz.; 1 oz. 10/4 oz.
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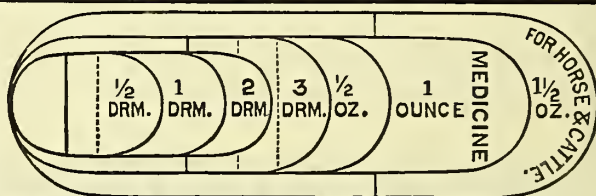
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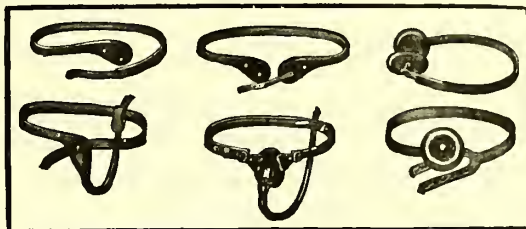
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Crystals, Liquid, Crude, Refined, Soluble Disinfectant Fluids and Powders, &c.

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For Dentists and Chemists requiring Reliable and Perfect Workmanship and Artistic Finish.

PUNCTUALITY GUARANTEED.

Personal supervision to every case. Price List of

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Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied. Opening orders a Speciality. Send for Price List.

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EXTRA LIGHT AND ALL GRADES TO SUIT EVERY PURPOSE.

CHEAPEST SELLERS IN THE MARKET.

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For Cold in the Head, Asthma, Influenza, &c.

Prices 11/-, 27/-, 42/- per dozen, less 15%.  
Minimum Retail Price, 1/-, 2/6, 4/- per bottle.

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ACT LIKE A MIRACLE. Will cure permanently all forms of Rheumatism, Sciatica, Gout, Neuralgia, Excess of Uric Acid, &c. Endorsed by the leading Medical Profession and general public in all parts of the world. Contain no injurious drugs, poison, or any kind of narcotic.

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FROM MODELS OR IMPRESSIONS.

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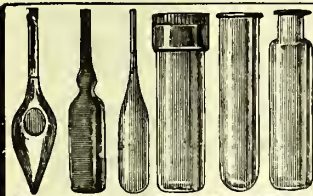
**EXPERT WORKMANSHIP. PROMPT SERVICE.  
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FOR ALL KINDS OF****CAPSULES & PERLES.**

Hand-made or Machine-made, "TYE'S" will ensure purity of contents and best finish. Specially prepared to suit all climates.

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Novel and interesting.

**4-12 OLD SWAN LANE, E.C.****GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.****JOHN OAKEY & SONS, LIMITED.**

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Prepared expressly for Oakey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines. Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

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A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &amp;c. Never becomes dry and hard like other Metal Pastes. Tins, 1d., 2d., 3d., and 6d. each.

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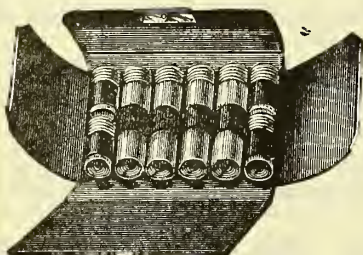
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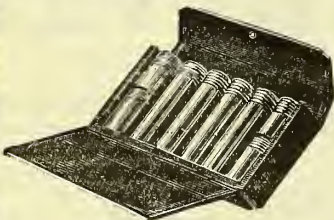


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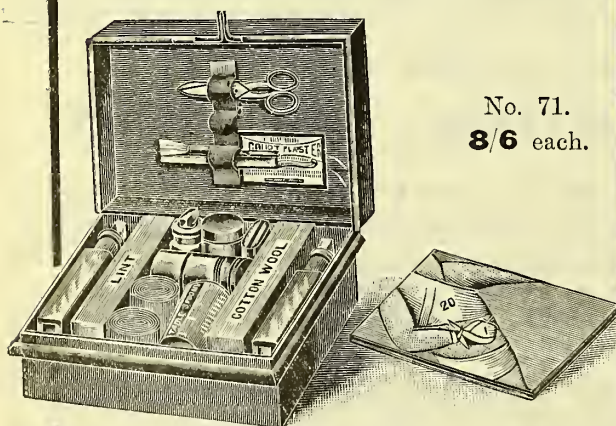


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Suitable for many purposes for  
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For BED WARMERS.  
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For MOTOR CARS.  
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The New Shape, Oval Fronted Bottles, 6 ounce size, 8 6 per gross

A Sample Free on Application.

#### FIRST QUALITY.

3 & 4 6 & 8 12 16 ounce. } Round edges, plain or  
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3 & 4 6 & 8 12 16 ounce. } Round edges, plain or  
7/6 8/6 12/- 18/- per gross } graduated, clear blue tinted.

PANEL BOTTLES (New Series), Green or Blue Glass.

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#### WHITE PHIALS—GOOD QUALITY.

3/6 4/- 4/6 5/6 per gross } Plain or teaspoons.

Six gross and upwards, assorted or otherwise, sent carriage paid to any  
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Established 120 years. Bankers: London County and Westminster Bank.

The Original and only Genuine

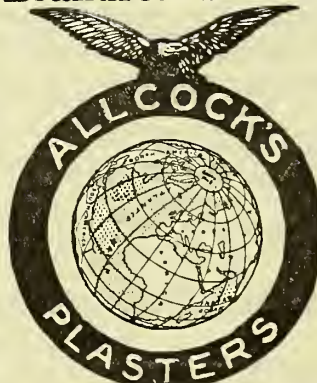
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A REMEDY OF 60 YEARS' STANDING.

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A HANDSOME  
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SEABURY'S SUPERFINE  
QUALITY  ABSORBENT  
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FOR HOSPITAL AND  
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1 oz.

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1 oz.

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PERFECT

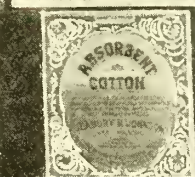


NEUTRALITY

2 oz.

4 oz.

QUICK

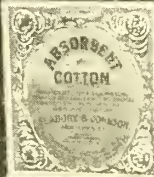


ABSORBENCY

4 oz.

8 oz.

MEDICATION  
EVENLY  
DISTRIBUTED  
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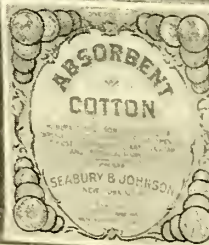


BASED ON  
THE WEIGHT  
OF THE FINISHED  
PRODUCT

8 oz.

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FULL WEIGHT  
16 oz. TO  
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EXCLUSIVE  
OF CARTON  
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16 oz.

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study list of undersigned,  
and remember convenience  
of getting small lots car-  
riage paid with other goods,  
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*Get our prices and samples.  
We can meet all competition.*

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*LIVERPOOL and LONDON.* LIMITED

Druggists' Sundries Department].



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY JANUARY 15 1910.

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

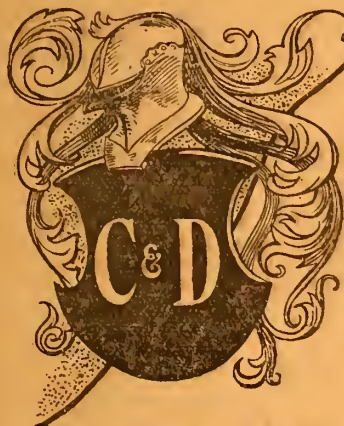
### PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules.

Telephone: No. 852 Bank (two lines).

Telegraphic Address: "Chemists London."

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."



## IT PAYS TO PAY FOR QUALITY.

EVERY CHEMIST WHO ADVERTISES IN THIS SUPPLEMENT KNOWS THE ADVANTAGES OF IT.

## CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.E.—Ready-money Business; Retail, Dispensing, and Photographic; returns, under manager, £1,200; scope for development; net profit 25 per cent.; stock and fixtures valued at £850; price, to include lease and goodwill, £900.

2.—SOUTH KENSINGTON.—Ready-money Business; Retail and Dispensing; returns between £1,100 and £1,200 per annum; net profit £350; attractive shop, single fronted; long lease; rent moderate; price £900.

3.—CITY.—Retail and Dispensing Business, chiefly ready money; returns between £1,500 and £2,000 per annum; profits above the average; further details on application.

4.—DERBYSHIRE.—High-class Business; held by vendor 25 years; gross receipts average £700, under management; double-fronted shop, handsomely fitted; commodious residence; early sale desired; valuation terms entertained.

5.—WESTERN COUNTY.—Health resort; old-established Business; Retail, Prescribing, and Dispensing; returns average about £550 per annum; net profit £175; price £300 or valuation.

6.—NORTH WALES.—Modern Pharmacy, Retail, Dispensing, and Photographic; returns £1,200 (average); handsomely-fitted shop, fully stocked; price £1,250.

7.—WEST OF ENGLAND.—Established Business; Retail, Prescribing, and Photographic; returns £500 per annum; net income £180; double-fronted shop; corner position; main thoroughfare; price £250.

8.—BUCKS.—Very old-established Business; Dispensing and Retail, including Wine and Spirit Department; returns between £1,700 and £1,800 per annum; profit (net) £351; intending investors with about £1,000 at command will find this a sound investment.

9.—GREAT WESTERN MAIN LINE.—Good-class Business; Retail and Dispensing; returns between £1,000 and £1,100 per annum; profits above the average; well-appointed shop, fully stocked; excellent residence, held on lease; price £900.

10.—BIRMINGHAM (near).—Old-established Business, held by vendor many years, now retiring; returns average between £1,050 and £1,100; gross profit £450; double-fronted shop; position unique; large residence, garden, and warehouse; price £700, or valuation if preferred.

11.—BUCKS.—Good-class Business (Mixed); established 1804; gross receipts £940; net profit about £300; large house, nice garden; rent moderate; long lease; price £700.

12.—HOME COUNTY.—Established Business; Retail and Prescribing; returns exceed £500; gross profit £280; comfortable residence; rent £48, held on lease; price £275, or near offer.

13.—GLOS. (Market Town).—Cash Retail and Prescribing Business; established 1815; returns last year £740; gross profit 40 per cent.; several splendid Proprietaries are included; roomy house; long lease; price £550.

14.—HOME COUNTY.—Good-class Business, Dispensing and Retail, producing a net income of about £400 yearly; further details on application; references will facilitate business.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.



**NOTE.**—Gone back to the old address,  
73 LAUREL ROAD, LEICESTER.

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Telegrams, "Brett Leicester." Telephone 100 Y.

VALUATIONS have always had our special and personal attention, and an experience of thirty years is at your disposal.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a Purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

## STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

1.—LIVERPOOL.—Good medium-class Retail; returns over £600, at good profits; splendid opening for Side-lines; moderate rent; price £425.

2.—SOMERSET.—Nice Light Retail and Prescribing; established well over 100 years; returns average £560; no Patents; stock and fixtures at valuation (about £300); part can remain.

3.—SUSSEX.—High-class Retail and Dispensing; returns £1,300; fine house; double-fronted shop; established nearly 25 years by vendor; price £950.

4.—LANCS.—Good-class Light Retail and Dispensing; good house; returns £1,100; net profit £350; price £1,000; worth every attention; thorough introduction given.

5.—MANCHESTER.—Good medium-class Business; returns £400, at a net profit of £180; price £160, or first reasonable offer gets it; low rent; an absolute bargain.

6.—DERBYSHIRE.—Good-class Family Retail; returns average £800, at a net profit of £260; low rent; valuation about £400.

7.—MIDDLESEX.—Light Retail, Dispensing; large double-fronted shop; good house; returns £700; net profit £200; price £550; valuable lease; capable of great increase.

8.—MIDLANDS.—In a thickly-populated district in the North Midlands; very old established; Light General Retail and Prescribing; no Patents; returns £600; net profits £300 can be greatly increased by an energetic man; price only £300.

9.—THE FORTERIES.—Small Homeopathic Business for Sale; nice house; returning £250 annually at a net profit of £100; only business of its kind in a population of nearly 90,000; price £100 or reasonable offer accepted.

WE have for Sale several small Businesses chiefly in London, the Midlands and Manchester districts; prices £80 to £300. Kindly state wants. We are only too pleased to be of service to you.

# PARSON C. BAKER

174 VICTORIA ST., LONDON, S.W.

Recommended by—MESSRS. BARRON, HARVEY & CO.

Telephone: MESSRS. MEGGESON & CO.  
No. 27 Victoria. MESSRS. BARCLAY & SON, LTD.

1.—£1,500.—LONDON, S.E.—Principal thoroughfare; Cash Retail and Prescribing; very profitable and increasing return; now £1,000; good double-fronted shop, well fitted and good house (rent £75) and Dentistry attached, returning £500 and rapidly increasing; price £1,000 together or Chemist's separate, price £500, which is value of stock and fixtures; freest investigation; the net profit exceeds £500 per annum.

2.—SOUTH COAST.—Centre of town; Family and season trade; good Cash Retail; large house, part now let off; modern window; business been neglected; now doing £500 only; rent £65; price value of stock and fixtures about £350.

3.—SOUTHERN CITY.—Neglected Business; established over 100 years; returning over £500; Mixed Family trade, at good prices; 6-roomed house; rent £40; now sub-let; business can readily be doubled; price value of stock and fixtures under £300.

4.—SOUTH LONDON.—Cash Retail; last 3 years £850, £875, £900 net profit, after deducting 3 rent, etc., £500; large house; nice garden; price £530, about value of stock and fixtures.

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**LICENSED CHEMISTS' VALUER.**

Valuations for transfer of business, Probate, &c. Businesses for disposal. Stocks and Fixtures purchased to any amount for cash. Stocktakings undertaken. A Register kept of Assistants and Chemists requiring Assistants; no charge made.

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H. P. ALEXANDER, LICENSED EXPERT VALUER,  
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on reasonable terms.

Of well-known experience to London Houses.

Businesses Wanted and for Sale.

Chemists' and Assistants' Wants Undertaken.

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TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—SUFFOLK.—Good-class Retail, Dispensing, and Prescribing, with valuable Proprietaries; returns average £900; net profit £270; scope for increase; good market town; large house and garden; price £150 and valuation; strongly recommended.

2.—HOME COUNTY (15 miles out).—Good-class Light Retail, with Wines and Spirits; quite unopposed; returns £900, increasing; net profit £200; modern house and shop, beautifully fitted and well stocked; price £725; personally inspected.

3.—BUCKS.—Good-class Retail and Dispensing Business; in central position; returns about £700; large house and garden; attractive shop, heavily stocked; price £550.

4.—EAST COAST.—Unopposed Light Retail Business; no Mixed or heavy trade; returns average £800; good house; low rent; well-fitted shop, heavily stocked; price £465; a bargain.

5.—CHESHIRE.—Good-class Retail and Dispensing Business; 2,500 prescriptions yearly, increasing; returns £600; net profit £185; good house; low rent; fine corner position; price £375 or valuation.

6.—WEST OF ENGLAND.—Light Retail, Prescribing, and Dispensing Business; no Patents sold; returns £500; net profit £175; busy main road position; scope for increase; price £300 or valuation.

7.—LONDON, S.E.—High-class Suburban Retail Business; no Side-lines; returns nearly £1,000; handsomely-fitted shop, fully stocked; good house; stock and fixtures worth £700; price £800.

8.—LONDON, S.W.—Middle-class Cash Retail Business; steadily increasing; returns over £1,200; net profit £300; good position; stock and fixtures worth £700 to £750; price £850.

9.—HERTFORDSHIRE.—Good-class Retail, Dispensing, and Prescribing Business in important market town; returns over £1,500; scope for increase; large shop, elegantly fitted and well stocked; price £950.

10.—LIVERPOOL.—Light Cash Retail Business; well established; returns about £1,000; net profit over £250; handsomely fitted shop, in unique position, fully stocked; price £375, or valuation.

11.—YORKSHIRE.—High-class Retail and Dispensing Business, increasing steadily; returns about £700; pleasant locality; practically unopposed; modern Pharmacy, well stocked; price, simply valuation, plus £50 goodwill.

12.—SURREY.—Good-class Light Retail Business; in growing residential town; returns £550; no heavy trade; net profit over £200; good house and garden; charming locality; price £450.

13.—HAMPSHIRE.—Light Family Retail Business in good-class growing district; returns nearly £700; no side-lines; plenty of scope; net profit £220; good house and shop; price £440.

14.—DERBYSHIRE.—Unopposed Light Country Retail Business; returns under manager £600; scope for increase; corner (lock-up) shop; well stocked; low rent; price £200, less than valuation; worth attention.

15.—LONDON (SURREY SUBURB).—Light Family Retail, Dispensing, and Prescribing; returns £610; net profit £200 to £250; good position; nice house, etc.; price £450.

16.—LONDON SUBURB, W.—Good-class Retail, Dispensing, and Prescribing Business; returns £200 under manager; plenty of scope; good main road position; low rent; well fitted and stocked; price £400; half can remain.

## STOCKTAKING.

We are now booking Stocktakings for 1910, and shall be pleased to send our special terms on application. See page 132, C. & D. Diary, 1910. Interviews arranged, correspondence invited.



# TOMTOM

Telegraphic Address.

**THOS. TOMLINSON & SON.**

Chemists' Valuers and Expert Stocktakers,

Businesses transferred privately.

29 NEW CANNON STREET, MANCHESTER.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and particulars can be sent to us direct or through the advertisers' correspondents in this country.

## BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

### COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded

**CHESHIRE.**—Old-established Dispensing Business near Liverpool for Sale in good-class residential neighbourhood; splendid position; good house; every convenience; long lease at very low rent; price £500; satisfactory reasons given for leaving. For further particulars apply, 147/3, Office of this Paper. Only genuine buyers need apply. No agents.

**CHESHIRE.**—Capital opportunity for beginner, or one with limited capital; vendor shortly going abroad offers his nicely established Dispensing Business, with Optics, for immediate Disposal at simple valuation stock and fixtures, about £350; handsomely fitted shop, 2 windows, electric light; modern house attached, side entrance; low rent; returns £600; growing suburb; unopposed; exceptional opening for Dentistry. "Immediate," (146/22), Office of this Paper.

**ESSEX.**—In one of the most rapidly rising suburbs; grand position for increase; opened 4 years; returns last year over £700 and still increasing; good profitable cash trade; fine opening for Dentistry; long lease; moderate rent; modern fittings and well stocked; excellent house; an exceptional opportunity for up-to-date man; must be sold; price near £500. 145/28, Office of this Paper.

**EASTERN COUNTIES.**—Old-established Mixed Country Business, Chemist and Stationer; returns £730; same hands 34 years; Post Office attached; none but *bona-fide* purchasers dealt with; references exchanged. "Salix" (144/1), Office of this Paper.

**HOLBORN.**—Owner retiring; genuine bargain; immediate Sale, old-established Chemist's Business; rent £60 inclusive; average gross takings £300 per annum; price for goodwill and fixtures only £150. Apply, by letter in first instance, to Messrs. Walter Hall & Sons, Surveyors and Agents, 38 Chancery Lane, W.C.

**KENT.**—For immediate Disposal, Light Retail and Prescribing Business; splendid opening for Dentistry; Agricultural district; neglected through ill-health; well-fitted modern shop; nice house and garden; price £80. 137/4, Office of this Paper.

**LONDON.**—Old-established Retail and Dispensing Business in good-class neighbourhood; well fitted and stocked; returns over £1,100; net profit over £500 (after all expenses paid). Apply (in confidence) to 146/7, Office of this Paper.

**LONDON (North).**—In good middle-class residential neighbourhood; returns over £600; net profit about £175; large double-fronted corner shop; nice house with side entrance; rent £58; lease; £350 or near offer. "Orthops" (145/35), Office of this Paper.

**LONDON Suburb (South-West).**—Good-class Business for Disposal; well established in commanding position; returns £1,300; net profit £400; low rent and valuable lease; fine house, in thorough repair; side entrance and garden; very healthy and pleasant locality; modern business; easily worked; scope for Optics; price £900. 147/10, Office of this Paper.

**LONDON, S.W.**—Good-class Retail and Dispensing Business; old established; main thoroughfare; rent £22; returns £800; in hands of present proprietor over 25 years, retiring; *bona-fide* purchasers treated with only; no agents. Address, "Pharmacist" (146/14), Office of this Paper.

**LONDON, WEST.**—Good-class Retail, Dispensing, and Prescribing Business, in splendid position; returns approach £1,000, increasing; good profits; attractive Pharmacy, heavily stocked; large and convenient house; family rears sole cause of selling; price £800, or £100 and valuation of stock and fixtures; fullest investigation courted. "Otto" (149/210), Office of this Paper.

**LONDON, S.E.**—Drug-store, with fair business in Fancy Goods, and good opening for Photographic and Tobacco Departments; no Chemist near, so good prices obtained; lock-up shop, well stocked, double fronted; 7 years' lease; takes £5 per week under management; returns easily doubled; price £150; or Partnership might be arranged. Apply, 150/2, Office of this Paper.

**MIDLANDS.**—Profitable Light Retail and Photographic, returning £500; best position in good manufacturing town; low rent; good house; no limited company opposition; several valuable Proprietaries; good reason for disposal; valuation only required; no agents. Apply, "Salicylas" (131/20), Office of this Paper.

**SCOTLAND.**—Thriving Chemist's Business for Sale in large town (Aberdeenshire); prominent position main street; old established; good and increasing turnover; profits above average; several valuable Proprietaries; splendid opening for Dentistry; good reasons for disposal. Apply, "Scotia" (147/12), Office of this Paper.

**SURREY.**—Small Branch Business for Sale in rising neighbourhood, 10 miles from Waterloo; corner shop, handsomely fitted; two good windows; good chance for beginner; splendid opening for Optics, Dentistry, and Stationery; rent £30; only wants seeing; must be sold; reasonable price. Address, "Sacrifice" (146/1), Office of this Paper.

**THAMES VALLEY** (10 miles from City).—For immediate Disposal; working-class locality; few Patents; plenty Prescribing; well stocked and fitted double-fronted corner shop; main road; electric light; garden; rent only £30 and taxes; 7-roomed, healthy house and district; returns average £400 per year under manager; take £150, or valuation, for quick sale. 145/15, Office of this Paper.

**WEST OF ENGLAND.**—In splendid position of rapidly growing health resort; Light Retail, Dispensing, and Prescribing Business; has been badly neglected; present returns £600 under management, can easily be made do £1,000; valuable lease; low rental; stock and fixtures worth £450; price for quick sale £515. "Western" (149/21), Office of this Paper.

**YORKSHIRE.**—For immediate Disposal, well-fitted shop; good house; long lease; no opposition; owner retiring; great scope for increase; district growing rapidly; suit young married man; no agents. Apply, 145/22, Office of this Paper.

**FOR Sale, a Business in a river-side town; strongly recommended. Apply for particulars Knowles & Phillips, 47 Minories, London, E.**

**LARGE town on South Coast; Light Retail and Prescribing Business; good shop with full stock; long lease; returns £350, increasing; valuation about £110, but no reasonable offer refused; must be sold. Apply, E. Francis Watts, Solicitor, Portsmouth.**

**LIGHT Cash Retail Business; working-class district; just outside London; giving net income of £300, increasing; low rent; good lease; comfortable house; books kept; investigation courted; trial allowed; full stock; well fitted; thoroughly sound concern and steady sales; price £500 to quick buyer; no agents; unopposed; opening to start Teeth. "Progress" (147/4), Office of this Paper.**

**MIXED Country Business for Disposal; turnover £500, can easily be increased; good house and garden; price £170; at liberty soon; Notts. Apply, 141/26, Office of this Paper.**

**SEASIDE.**—Good Retail, Dispensing, and Fancy Business, established about 35 years; present occupier 22 years in same; retiring from business; large and well-fitted shop; stock good; good-sized house in main street; vendor will sell at valuation or lump sum; returns about £1,000, frequently more; will accept £350 or offers. Apply, "X. Y. Z.," 56 Hanover Street, Liverpool.



## BUSINESSES FOR DISPOSAL

(continued.)

**VERY** profitable, compact Drug-stores, N.W. London; crowded improving district; returns last year nearly £500, net profit £254; qualified man could greatly increase trade; some distance from nearest chemist; lock-up shop, nicely fitted, well stocked; stock and fixtures value £250; fullest investigation courted; satisfactory reason for sale. 149/14, Office of this Paper.

**£50** cash, balance easy terms; aged vendor's breakdown compels disposal, consequently bargain; unopposed; busy centre, established marketing thoroughfare, N.W.; dense population, large proportion first-class; considerable Prescribing; smart purchaser adopting modern business methods must do well; position unequalled; very valuable asset; Dentistry addition would meet very pressing want. 150/7, Office of this Paper.

**£120**; West of England; Cash Retail Drug-store and Prescribing Business, at good profits; chance for qualified or unqualified; small manufacturing town, nearly 5,000 population; good opportunity for smart man; no agents; convenient house and garden; average returns £6 per week. "Statim" (146/28), Office of this Paper.

**£250**.—Extremely profitable Prescribing and Cash Retail in N.W. district; net profit for last year £4 10s. per week (every proof given); stock and modern fittings valued at £250; qualified man could increase 50 per cent.; open to every investigation; books properly kept; references exchanged; satisfactory reason for disposal. "N. B." (150/5), Office of this Paper.

**£4,000** returns; first-class Retail and Dispensing in fashionable inland watering-place, West; purchase about £3,000, or goodwill and valuation; death cause of sale; inquiries must be accompanied by references. "Solicitor" (42/33), Office of this Paper.

## BUSINESSES WANTED.

**SCOTLAND**.—Country or Coast Business wanted; must show net profit of £200; buyer will pay cash for suitable business; strictest privacy given and expected. Address, in confidence, 146/8, Office of this Paper.

**BRETT & CO.**, 73 Laurel Road, Leicester, have cash buyers for sound concerns ranging from £1,000 to £3,000 returns; correspondence invited.

**GOOD-CLASS** Dispensing and Retail Business wanted; West or South-West of England preferred, but not essential; must bear fullest investigation; capital available £1,000. Full particulars to "Pharmacist" (144/6), Office of this Paper.

**GENUINE** Business wanted; fairly good-class Retail and Dispensing, showing net profit about £300, and scope for development; must bear strict investigation. State lowest cash price and full particulars (in confidence), "Aspirin," 15 Maze Road, Kew.

**LIGHT** Retail Business wanted; North-west county preferred, but not essential; returns £600 or upwards; no heavies or dental work; good house. Full particulars to "T. A. H." 21 St. Flora's Road, Littlehampton, Sussex.

**MESSRS. BERDOE & FISH** having recently been successful in disposing of a large number of businesses, are in immediate want of sound concerns in London and all parts of the country for cash buyers from £300 to £3,000; strictest privacy guaranteed; correspondence invited from intending vendors. 35 Jewry Street, Fenchurch Street, E.C.

**WANTED**, a sound Business, showing annual profit of not less than £250; a Country Family Retail preferred. State lowest price for cash, with full particulars, "O. B. E." (147/20), Office of this Paper.

**I WANT TO TRANSFER** my Stock and Fixtures to a good business town, at least 50 miles from London; Western County preferred; empty shop or one not recently fitted will suit if business is done in vicinity. "Mudanza," 47 Seward Road, Hanwell, London, W.

## PREMISES FOR SALE.

**RETAIL SHOPS**.—A capitalist with a number of Shops in important towns is open to negotiate for Sale or adaptation of same; might provide capital also; in latter case indispensable that party has successfully managed a shop business. Box 360, S. H. Benson, Ltd., Kingsway Hall, W.C.

## SALES BY AUCTION.

BY ORDER OF THE TRUSTEE.

Re A. O. & A. J. MUNDY.

REMOVED FROM 11 NORTON FOLGATE, E.C.

**THE STOCK AND PLANT** of a WHOLESALE AND RETAIL CHEMIST, including 500 Show-bottles and Contents, Jars, Cans, Boys, Wet and Dry Drugs, large quantity of Stone Bottles and Jars in Wicker, Scents, Toilet Requisites, Patent Medicines, Pills, Powders, Proprietary Articles, and Chemists' Sundries and Fancy Goods, Copper Pans, Measures, Grinding Mills, Iron Presses, Scales and Weights, Fixtures, Fittings, Show-cases, etc.

**MR. FRANK G. BOWEN** will SELL by AUCTION, at his Rooms, 62A Aldersgate Street, London, E.C., on THURSDAY, January 20, at one.

On view day prior.  
Catalogues of Messrs. Francis Nicholls, White & Co., Chartered Accountants, 14 Old Jewry Chambers, E.C., and of the Auctioneer

## TO LET.

**DUBLIN**.—Shop and premises to Let in leading street; window, glass frontages, 47 ft. by 9½ ft.; corner house; specially suited for display of goods. Apply, George Turner, 18 Nassau Street, Dublin.

**ATTRACTIVE** Shops, adjoining Wimbledon Park Station (District and S.W.), almost ready; ample accommodation; immediate openings for Chemist, Hairdresser (no competition), and others. Ryan & Penfold, Wimbledon Park, S.W.

**REDHILL**.—Two double-fronted lock-up Shops, size 20 ft. by 18 ft.; main road; central position; good opening for Chemist; rent £35 and £40. Apply, Peat & Holdsworth, Estate Agents, Redhill.

## FOR SALE.

**CHEMICAL** and Essential Oil Works (Hamburg), in good condition, with all modern machinery, to be sold; good opportunity to set up Branch establishment. Apply, 38/39, Office of this Paper.

## AGENCIES.

**LIVERPOOL**.—Important French Perfumery wants an experienced, reliable, qualified Agent for Liverpool; one well acquainted with the Perfumery and Chemist line preferred. Please state full particulars, age, and references, to "Alex" (41/62), Office of this Paper.

**AN** important German firm of Manufacturing Chemists is desirous of negotiating with a gentleman who has had a Medical or Pharmaceutical training and who is fully capable of initiating and conducting a scientific propaganda amongst the profession in the United Kingdom; considerable experience in this class of work, as well as ability to compile Medical Literature essential; knowledge of German desirable. Address full particulars to "Propaganda" (126/24), Office of this Paper.

**GENTLEMAN** going very soon to Calcutta, and having unique connection among all best buyers, wishes extra sole Agencies, small monthly retainer and commission. 149/12, Office of this Paper.

## PARTNERSHIPS.

**ANIMAL** Medicines Manufacturer, with several years' steady connection, wishes meet active Partner, firm with traveller in same line, or young veterinary Chemist; a couple of hundred as financial interest; incomer would divide work and travelling with advertiser. 143/22, Office of this Paper.

**PROPRIETOR** of large Store business, obliged to devote his time to other business, wishes to meet with a well-educated gentleman, qualified and of good business abilities, able to take full charge; capital required £500 to £1,000, and opportunity afforded for the investment of further amount later if wished. Please give full particulars (in confidence) to "Trypsin" (39/12), Office of this Paper.

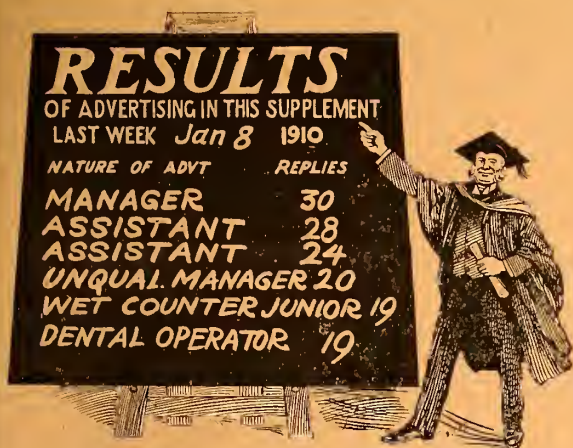
## APPRENTICESHIPS.

**WANTED**, an Apprentice in a first-class Pharmacy, where two assistants are kept; comfortable home; good Dispensing business, with Photographs. Apply to F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.



# SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.



**RESULTS**  
OF ADVERTISING IN THIS SUPPLEMENT  
LAST WEEK Jan 8 1910

NATURE OF ADVT	REPLIES
MANAGER	30
ASSISTANT	28
ASSISTANT	24
UNQUAL. MANAGER	20
WET COUNTER JUNIOR	19
DENTAL OPERATOR	19

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

## ANSWER IN TERMS OF THE ADVERTISEMENT AND

**REMEMBER** you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

**BE BRIEF BUT CLEAR**—millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

**REPLIES TO ADVERTISEMENTS** may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

## TO SAVE TROUBLE.

**MANY** correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that the Advertiser pays postal charges in such cases, and perhaps this reminder will obviate the necessity of the constant return of remittances which forgetfulness of this fact entails.

## RETAIL.

**BIRMINGHAM**.—Assistant (23), capable of taking charge Dispensing, Window-dressing, knowledge of Photography. State salary (outdoors), height, and usual particulars, with photo, if convenient, in first letter, to A. F. Goode, Ph.C., Erdington.

**BRISTOL**.—Wanted, at once, Junior Assistant for Branch business, where three other assistants are kept; state age, height, experience, salary required, and give references; hours 8 to 8, Friday 9, Saturday 10; outdoors; half-day each week; no Sunday duty. Apply, Managing Director, 5 Nelson Street, Bristol.

**CAPE TOWN**.—Required, urgently, a good qualified Junior Assistant; single; second-class passage paid out; salary £15 per month first year, £16 per month second year, £17 per month third year; sleeping accommodation provided; must be neat and accurate Dispenser. Apply, by letter, with full particulars, to "Cape," Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

**CAPE COLONY**.—A qualified Assistant required, whose chief duty would be to sell Photographic goods, therefore must have had good all-round experience in Photography; must be able to do Developing and Printing; 3 years' agreement; passage paid out; commencing salary £15 per month (outdoors). Apply, by letter only, Lennon, Ltd., 54-58 Queen-Elizabeth Street, S.E.

**INDIA**.—Wanted, for firm in Calcutta, Minor mnn, single, age about 25, with first-class references; 4 years' agreement; passage paid out and home. Apply, stating experience, etc., 120/13, Office of this Paper.

**LEEDS**.—Wanted, qualified Assistant for General Business and Photography; off-licence; hours 8.30 to 9 P.M., Sunday duty every third Sunday; half-holiday weekly. State age, references, and photo to E. Sleight, 134 Barley Road, Leeds.

**LIVERPOOL**.—Qualified Manager and unqualified Assistant wanted, immediately; age 25 to 35. Apply, stating full particulars of experience and latest reference, to "Salol," Evans, Sons & Co., Hanover Street, Liverpool.

**LONDON, S.W.**—Qualified Assistant, 22-25 years of age, for high-class Dispensing business. Apply, by letter, stating experience and salary required, to "A. C.," Messrs. Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, London, S.W.

**LONDON, W.**—Wanted, thoroughly capable all-round Assistant, about 30, accustomed to quick business; must be of good height, appearance, and address and a first-class Counterman. W. V. Wright, 25 Broadway, Hammersmith.

**LONDON, S.E.**—Qualified energetic Counter Assistant required, with a good practical knowledge of Photography and used to a quick cash business; an entire day a week off. Apply, with usual particulars, to 146/16, Office of this Paper.

**LONDON, S.W.**—Wanted, immediately, unqualified Junior; must be accustomed to good-class Dispensing; personal interview preferred. Apply, "Manager," Bradley & Bourdas, 48 Belgrave Road, S.W.

**LONDON, W.**—Assistant (indoors), good-class Dispensing, immediately. All particulars to Harding, The Avenue, West Ealing.

**LONDON, W.C.**—Wanted, smart qualified Senior for high-class Pharmacy. Reply, stating if able to speak any foreign language, and giving full particulars as to age, height, salary, and references, and enclosing photo (which will be returned), 150/6, Office of this Paper.

**LONG EATON**.—Wanted, an unqualified Assistant; must be smart Counterman; abstainer; knowledge of Photography. Apply, stating full particulars of age, experience, reference, salary (outdoors) required, enclose photograph (to be returned), Wm. Shelton, M.P.S., Pharmacist, High Street, Long Eaton.

**MANCHESTER**.—Assistant (outdoors), unqualified, age 23, accustomed to good-class Counter, Dispensing, and Photo trade; state full particulars as to wages, etc., in first letter; applications not answered within four days declined with thanks. Mallinson, Chemist, Withington, Manchester.

**PARIS**.—Qualified Assistant; age about 25; Continental experience; knowledge of French indispensable. Address, "Caxti" (257/5), Office of this Paper.

**ST. LEONARDS-ON-SEA**.—Junior or Improver wanted (indoors) for Light Retail and Dispensing. State age, height, references, and salary required, enclosing photo, to T. W. Jones, 55 Bohemia Road, St. Leonards-on-Sea.

**SHEFFIELD**.—Wanted, end of January, a qualified Assistant for the Mixed Retail trade in a working-class district; one having had some experience in this class of trade preferred; permanency; Thursday half-holiday; no Sunday duty; outdoors; references to be sent for strict investigation. Exor. J. Watts, 596 Attercliffe Road, Sheffield.

**SOUTH WALES**.—Unqualified Managing Assistant; 30-35; good-class General Retail; must be a reliable, energetic business man, well up in the trade, and able to take full charge when necessary; undeniable recent reference required; also good Junior; both indoors; letters not answered in four days declined. Apply, "West" (146/17), Office of this Paper.

**TRANSVAAL**.—Qualified Assistant; strictly honest, reliable, energetic; abstainer preferred; age 28 to 35; tall; good appearance; unmarried; knowledge of Photographic and Optical goods; 3 years' agreement; £22, £23, £24 monthly respectively; part passage advanced if necessary. Send testimonials, detailed record, and recent photo, 141/21, Office of this Paper.

**WESTERN SUBURB**.—Assistant wanted for Light Retail and Dispensing, two evenings weekly from 5 o'clock. 43/68, Office of this Paper.

**WESTON-SUPER-MARE**.—Wanted, a qualified Assistant (indoors). Apply, with usual particulars, to John Cooper, Pharmaceutical Chemist, Weston-super-Mare.



# SITUATIONS OPEN *(continued).*

**YORK.**—Qualified Junior Assistant (outdoors), one with knowledge of Photography and Optics preferred. Apply, Coverdale, Chemist, York.

**A GENTLEMAN**, under 30, required, at once, as Dispenser in Surgery; whole-time employment; good references. 43/67, Office of this Paper.

**BALKWILL & CO.** have a vacancy, at once, for a qualified Assistant; one used to first-class Dispensing and Retail. Outdoor. Apply, stating age, height, experience, and salary required, also enclosing photo, to F. W. Hunt, 106 Old Town Street, Plymouth.

**BRANCH Manager** wanted; qualified; one with Store experience preferred; age about 25 to 30. Apply, with full particulars of recent engagements and salary required, together with a recent photo, to 145/6, Office of this Paper.

**IMPROVER** wanted (indoors) for good-class Dispensing and Retail business; knowledge of Photography. Apply, stating age, experience, and salary required, to Feltwell & Son, Chemists, Barnes, S.W.

**JUNIOR** or Improver for high-class Paris Pharmacy; excellent opportunity of learning French and French Pharmacy; small salary to commence, an increase when proficient. Write, with full particulars, to Dobar, 28 Rue Caumartin, Paris.

**LEWIS & BURROWS** have a vacancy for a first-class qualified Dispenser. If application is made by letter, kindly enclose full particulars and photograph to 146 Holborn Bars, E.C.

**MANAGER** wanted, married preferred, for small country seaside Branch, to live on premises; easy hours; knowledge of Photography. Apply, giving full particulars as to salary, experience, etc., to Richardson, Chemist, Freshwater Bay, I.W.

**MANAGER.**—A gentleman required to take Management of business with three Branches; must be thoroughly competent and have good knowledge of trade; age about 35 to 40; opportunity to acquire interest in business given. Please give full particulars as to experience, etc. (in confidence), in first letter, to "Latona" (39/102), Office of this Paper.

**SMART**, intelligent Assistant wanted for the Counter, with a knowledge of Dispensing; age about 20 to 25. Apply, stating full particulars as to recent engagements and enclosing a photo, to 146/60, Office of this Paper.

**WANTED**, Assistant (registered) to Manage Mixed Country Retail and Prescribing business in Mining district in Durham; unfurnished house; married; must be reliable; one used to the class of business and wishing to settle preferred. Apply, stating salary, age, experience, references, etc., to "Chemist," c/o Messrs. Ismay, Wholesale Druggists, Newcastle-on-Tyne.

**WANTED**, for a Liverpool Hospital, a fully qualified Lady Dispenser; previous hospital experience essential; salary £75 per annum. Applications, giving particulars of age, qualifications, and experience, accompanied by copies of recent testimonials, to be sent by January 21 to "Hospital," c/o Lee and Nightingale, Advertising Offices, Liverpool.

**WANTED**, Dispenser and Extractor with afternoons free to call on Chemists and Dentists in own district; smart man should earn easily £1 a week. Apply, 148/39, Office of this Paper.

**WANTED**, qualified Manager for Mixed Country Business for February 2. Apply, stating age and salary required, with photo (applications not answered in seven days consider declined), to Brown's Exors., Chemists, Collingham, near Newark.

**WANTED** (Cumberland), perfectly steady, trustworthy Minor Assistant for Dispensing and Light Retail Branch; must be careful Dispenser, obliging, punctual, and tidy; Churchman preferred; hours easy, off at 1 every Thursday, or equivalent; on duty all day one Sunday in three (9½ hours). Apprentice also wanted. Apply, 143/24, Office of this Paper.

**WANTED**, a qualified third Assistant, whose duty will be to keep Stock and assist at counter in a high-class business. Enclose photo, state age and experience and salary required, to 143/27, Office of this Paper.

**WANTED**, for February 1, a qualified Assistant, about 24 or 25, accustomed to good-class business; must be a reliable Dispenser and good Counterman. J. Bletsoe, Pharmacist, Richmond, Surrey.

**WANTED**, Prescribing Salesman and Window-dresser, able to take charge in a purely Proprietary business. State if married, salary (outdoors), if abstainer, experience, and enclose photo Lewis & Co. Medical Hall Newport Mon.

**WANTED**, (1) qualified Manager for Branch; outdoor; under 35; energetic and capable. (2) Unqualified Junior for small Branch. (3) Old-registered Chemist for light duty. State when at liberty, salary, which position sought, and usual particulars (applications not answered by Monday please consider declined), 145/25, Office of this Paper.

**WANTED** (at once), qualified Assistant (outdoors), used to good-class business. State height and usual particulars, H. Paget Matthews, M.P.S., Pharmacist, Croydon.

**30/-** (outdoors); Second Assistant wanted; good, quick worker and smart Counterman essential; age not under 26. "Cardiff" (145/40), Office of this Paper.

## WHOLESALE.

**LONDON** firm, with established connection, requires able Representative for Glasgow district, also Midlands; Packed Toilet Articles and Perfumery; commission and part expenses. Apply, with full particulars of previous engagements, 149/42, Office of this Paper.

**A MEDICAL** Representative wanted, to introduce to Physicians important Medical Preparations; must be of good appearance and address and have a knowledge of Therapy and Chemistry. State experience, age, and salary required, 137/14, Office of this Paper.

**DRUGGISTS' Assistant** wanted, accustomed to the Wholesale, who would take up the sale of Essences and Essential Oils over ground where a large connection has been established; must be a first-class man; state age and experience. Apply, 41/28, Office of this Paper.

**LABORATORY** hand wanted by London Druggists; must have had good all-round Manufacturing experience and have been a practical maker of Granular Effervescent Preparation. Write, giving full particulars of previous employment (in confidence), to Manager, Crayford Mills, Stratford, E.

**MANAGER** for London Branch of Continental firm; manufacturers of Proprietary Articles and other goods. State age, previous experience, salary required, and what security can be given, 33/41, Office of this Paper.

**REPRESENTATIVES** wanted, on good commission only, with reliable connection among Chemists, Perfumers, etc., in the United Kingdom, for a saleable side-line in Perfumery; very small sample. Address, with full particulars, 149/31, Office of this Paper.

**SMART** Representative required, calling upon Chemists, Stores, and Wholesalers, to carry as side-line well-known Speciality having large sale; 100 per cent. profit to retailers; 15 per cent. commission. State ground covered and full particulars to "Regis" (149/20), Office of this Paper.

**TRAVELLER.**—Marr's Currie Powder de-luxe require Representatives on commission throughout the United Kingdom, with connection among Chemists and Druggists. Apply, O. Marr, 18 Trinity Square, Brixton, S.W.

**TRAVELLER** required to Represent London Wholesale Druggists in Eastern Counties and North of England; first-class connection essential. Reply, stating full particulars of past representation, turnover, ground actually covered, salary, etc., to 32/62, Office of this Paper. All replies treated in the strictest confidence.

**TRAVELLER** required for London firm to take orders from Medical men; one with energy and connection preferred, and liberally treated with. Reply, "Argyrol" (44/6), Office of this Paper.

**TRAVELLERS**, with first-class connections among Chemists, required to carry Pills, Tablets, Capsules, etc., as a Side-line throughout the United Kingdom on liberal commission terms. State full particulars of previous experience, houses now represented, ground covered, and commission expected, to "Ambition" (149/37), Office of this Paper.

**TRAVELLERS** required for London and country by London importers of Chemicals, Oils, and Drugs; good prospects. Address, "R. R." (142/9), Office of this Paper.



**VACANCY** for Foreman, to prepare and pack Food Product, made fresh daily. Address, "J. Y." (41/69), Office of this Paper.

**WANTED**, by a provincial firm of Essence Manufacturers (a Limited Company), a gentleman, age 25 to 30, with the best business qualifications, to assist Management and to Travel if necessary; applicants to state age, salary required, with details of experience and training and position held, which will require to be well certified, 40/72, Office of this Paper.

**WANTED**, Representative for Perfumery, calling upon the Wholesale trade only. Communicate terms, ground, experience, etc., "Perfumes" (39/39), Office of this Paper.

**WANTED**, a young German Apotheker to call on Medical Men in Germany with respect to certain Pharmaceutical Products; must be of good address, energetic, and persevering. Apply, 42/55, Office of this Paper.

## SITUATIONS WANTED

(Colonial, Indian, and Foreign).

**1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.** Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

*This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.*

**QUALIFIED**; 27 years of age; good experience on Riviera and Switzerland; disengaged; Continent preferred. 145/13, Office of this Paper.

**TWO Pharmacists** (23), Square trained, excellent experience and references, require Continental experience; slight knowledge of French; season or permanency. Thomas, 3 Blunts Road, Eltham, Kent.

## SITUATIONS WANTED

**1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.**

### [HOME.] RETAIL.

**GERMAN-HANOVERIAN Assistant**; 26; tall, smart; speaks French and English; Continental experience, Paris, Geneva, etc.; good window-dresser; Photographic; excellent references; terms moderate. 137/19, Office of this Paper.

**JUNIOR or Assistant**; 22; tall; 7 years' experience; Light Retail, Dispensing, Photography; abstainer; disengaged; outdoors preferred. Perry, 18 Gaolgate Street, Stafford.

**MANAGER**, qualified (38), desires change; permanency; 24 years' varied experience; 7 years present situation; excellent references; good house essential. 147/13, Office of this Paper.

**QUALIFIED**; 24; London experience; Dispensing and Retail. Stott, Capri, Savile Town, Dewsbury.

**UNQUALIFIED**; 24; 8 years' experience; references; outdoors. "Statim," 11 Pembroke Avenue, Hove.

**IMPROVER** (21), 5 years' experience, requires position in good business. "P.," 112 William Street, N.W.

**PART-TIME**; tall; good Dispensing and Counter experience. "Aspirin," 25 Albert Square, Clapham, S.W.

**JUNIOR**; 5 ft. 8 in.; good references; Counter, Dispensing, Photography. Harris, Market Hill, Coggeshall.

**MANAGER**; qualified; first-class London experience; married; disengaged. "W. G.," 9 Barclay Road, Fulham.

**MANAGER**; qualified; 32; good experience; disengaged. Bach, Blithfield, Thetford Road, New Malden, Surrey.

**QUALIFIED**; 25; 5 ft. 4 in.; West-end experience; disengaged February 7. Harris, 36 Foxley Road, N. Brixton.

**QUALIFIED**; under 30; first-class all-round experience. "Chemist," 3 Banff Road, Rusholme, Manchester.

**MANCHESTER** or district; unqualified; part or full time (in February). 278 Great Clowes Street, Manchester.

**QUALIFIED**; 24; 8½ years' experience; Dispensing; good references; disengaged. Gardner, 1 Dale Street, Lancaster.

**MANAGERSHIP**; good appearance; tall; married; splendid experience; disengaged; qualified. Hickes, Myton-on-Swale, York.

**UNQUALIFIED**; 38; Manager or Assistant; Dispenser, Prescriber; outdoors; good reference. 58 Catherine Road, Sheffield.

**QUALIFIED**; 27; tall; 12 years' best-class Dispensing and Retail experience; North preferred. C/o 22 Walker Road, Harrogate.

**ASSISTANT**; unqualified; would accept moderate salary to get in touch with modern Pharmacy. "X.," 66 Froston's Road, Workington, Cumberland.

**SURGEONS' Dispenser and Bookkeeper**; experienced; 3 years in last situation; salary moderate; outdoors. H. Brice, 9 Church Road, St. Thomas, Exeter.

**ASSISTANT**; Dispensing, Counter, Photography. Wetton, 27 White Street, Coventry.

**PART-TIME**; Saturday and Sunday evenings; undeniable references. 27 Canonbury Square, Highbury, N.

**SENIOR or Manager**; 30; qualified; West End and provincial experience. Weavers, Wyre Street, Colechester.

**PART-TIME**; experienced; unqualified; well recommended; reliable; 30. "Alpha," 25 Ferndale Road, Clapham.

**UNQUALIFIED**; 38 years; disengaged; experienced in all branches. Vassall, 5 Cairns Road, Clapham Junction.

**DISPENSER**, qualified, seeks re-engagement; bookkeeper; references. Miss Morris, Flemingstone Rectory, Cowbridge.

**LOCUM**; qualified; 29; experienced; abstainer; excellent references; disengaged. E. Snow Lee, Park Villa, Crediton.

**PHARMACIST**; 25; high-class Dispensing; South Coast preferred. P. M. Brooks, c/o Miller & Co., Tunbridge Wells.

**QUALIFIED**, experienced lady Dispenser, expert typist, duplicator, seeks post; excellent references. 139/28, Office of this Paper.

**AS Junior** in a good-class Dispensing business; age 21; height 5 ft. 11 in. W. O. Smith, c/o Messrs. Randall & Son, Southampton.

**JUNIOR**; aged 21; centre of Liverpool or other place with good train connections essential. J. W. Rigby, Station House, Skelmersdale.

**UNQUALIFIED**; 31; height 6 ft.; first-class experience; disengaged; 2½ years' reference. Mitchell, 21 Planchford Road, Shepherd's Bush, W.

**MINOR** student seeks engagement for half-day Saturdays, one other evening, and occasional Sunday afternoon or evening. Apply, 8 Torrington Place, W.C.

**UNQUALIFIED**; age 32; married; disengaged; Manager or Assistant; all-round experience; South preferred. Apply, "X.," 2 Stella Villas, York Avenue, E. Cowes.

**AS Manager or Assistant**; in South Wales preferred; unqualified; age 45; 30 years' experience, both in Wholesale and Retail; life abstainer; married. 110 Gelligaer Street, Cardiff.

**MANAGER or Assistant**; 26; qualified; London (City preferred); best West-End, Provincial, and Continental Dispensing and Retail experience. Apply, 143/21, Office of this Paper.

**JUNIOR**; unqualified; 23; abstainer; used to quick Cash Store trade; good Counterman; knowledge of Optics; highest references; disengaged. "R.," 69 Union Street, Stonehouse, Plymouth.

**ASSISTANT**; sine-diploma; 30; tall; good varied experience; references; Photography; competent and trustworthy; outdoors; now disengaged. "Verax," Royal Hotel, Avonmouth, Glos.

**MANAGER** or temporary; Continental and West-End experience; fluent French, Optics, and Photographics; in or out door; disengaged. "J. T. B.," c/o Hon. Secretary, 55 Bryanston Street, W.



# SITUATIONS WANTED *(continued).*

**L**ADY Dispenser; Hall certificate; previous experience. 146/38, Office of this Paper.

**Q**UALIFIED lady Dispenser; experienced; testimonials. 145/20, Office of this Paper.

**L**OCUM, permanency, or view to succession. "Pharmacist," 15 Glebe Street, Nottingham.

**A**SSISTANT, experienced, desires part-time post in London. Goodwin, 27 Buller Road, Kensal Rise.

**T**EMPORARY or permanency; qualified; capable and reliable; disengaged. F. W. Manning, Fairfield, Glos.

**Q**UALIFIED (21) desires situation in good-class Pharmacy; tall, well-educated. Buckley, South View, Lees, Oldham.

**C**HEMIST'S daughter desires situation in Perfumery and Toilet Goods. M. Wells, 21 St. Martin's Road, Stockwell, S.W.

**M**ANAGER or Assistant with view to purchase; unqualified; single; 35. "Competent" (144/39), Office of this Paper.

**D**ISENGAGED; unqualified; competent Dispenser, also Counter experience; age 29; outdoors. 144/29, Office of this Paper.

**C**APABLE Assistant; 36; good all-round experience; up to date; unqualified. "Statim," 51 Estate Buildings, Huddersfield.

**M**ANAGER; qualified; 42; accustomed to high-class Dispensing business; good references. "Veritas" (144/24), Office of this Paper.

**L**ADY Dispenser; qualified; Minor student; doctor or institution; excellent testimonials and experience. Apply, 145/5, Office of this Paper.

**M**ANAGER or Senior; qualified; best experience and references; thoroughly reliable and trustworthy. "Len" (147/16), Office of this Paper.

**Q**UALIFIED; Manager or Locum; Store experience; Photography and French Pharmacy; disengaged. Address, 141/38, Office of this Paper.

**A**SSISTANT; 39; disengaged; references; experienced; small salary (outdoors) if short hours. "Dispenser," 19 Station Road, Croydon.

**M**ANAGER; qualified; good all-round experience; outdoors; disengaged; London or suburbs. "A. D. M.," 39 Theobalds Road, Leyton, E.

**J**UNIOR; just completed 4 years' apprenticeship at Newark; 18½; tall; abstainer; time for study; indoors preferred. 145/33, Office of this Paper.

**M**ANAGER, qualified (middle-aged), good all-round experience, to live on premises; married; highest references. "H." (145/36), Office of this Paper.

**M**ANAGER with view to Succession or Partnership in good-class Retail business in Kent or Surrey; references given and wanted. 147/19, Office of this Paper.

**Y**OUNG lady desires post with Chemist as Stockkeeper; 6 years' experience in Retail, Photographic, and Dispensing; good references. 146/11, Office of this Paper.

**U**NQUALIFIED; 25; good-class Dispensing, Counter, and Photographic experience; well recommended; Continent preferred; disengaged. 146/40, Office of this Paper.

**Q**UALIFIED; tall; gentlemanly; middle aged; married; good all-round experience and references; nominal salary; disengaged February 1. 145/1, Office of this Paper.

**S**COTSMAN (40), qualified, out of business, desires post as Dispenser or Branch Manager; has experience of same; well recommended. Address, 146/9, Office of this Paper.

**A**SSISTANT; reliable; capable of management; all branches, Photography, Extracting, etc.; good experience; references; London. "Statim," 172 Railton Road, Herne Hill, S.E.

**U**NQUALIFIED; 23; town or country; disengaged. "Assistant," 75 Clare Road, Cardiff.

**A**S Manager or Manager's Assistant; excellent qualifications. 149/2, Office of this Paper.

**M**ANAGER; 34; qualified; Locum or permanency; all-round experience. "P.," 54 Southgate Road, N.

**P**ART-TIME, one or two evenings a week; good references, experience. "Chemist," 40 Camden Street, N.W.

**R**ELIEF; 4 days weekly free; highly recommended. "Pharmacist," 33 Foskett Road, Hurlingham, S.W.

**A**SSISTANT; middle-aged; reliable; unqualified; good references; outdoor. "B.," 91 Goldsmith Street, Nottingham.

**D**ISENGAGED; College trained; age 24; 5 ft. 5 in.; Store, Photo, Doctor's Dispensing. Evans, Forster Street, Smethwick.

**C**APABLE Assistant; Retail, Dispensing, Photography; time for study preferred. "Reliable" (149/28), Office of this Paper.

**J**UNIOR or Improver in good-class business; 3 years' experience; good references; 18. "M.," Surgery, Huxloe Place, Kettering.

**Q**UALIFIED; 27; London or Continent preferred; good experience; fluent French. Beauverd, 27 Clifton Crescent, Folkestone.

**T**EMPORARY Assistant or Locum; qualified; 27; Dispensing or Counter; good references; tall. "Optional," 15 Maze Road, Kew.

**15/-** per week; 9 to 4 daily; help in Optics, Photography; Half qualification; excellent references. 149/22, Office of this Paper.

**J**UNIOR requires situation; height 5 ft. 9 in.; London experience; excellent references; disengaged. Apply, 149/3, Office of this Paper.

**M**ANAGER or Locum; reliable; competent; excellent experience; highly recommended. "N.," c/o 11 Mayfield Place, Eastbourne.

**Q**UALIFIED; 30; Assistant or Manager; high-class Dispensing and Retail; good references. "M.P.S.," 3 Ayr Street, Nottingham.

**M**ANAGER; 40; small Drug-stores; work up Branch; or view succession; easy terms; all-round experience; energetic, reliable; disengaged 18th. Address, "Reliable," 62 Saltoun Road, Brixton, S.W.

**M**ANAGER, Senior, or Locum; sound Store experience; good Window-dresser; short hours preferred. "Statim," 24 Salisbury Road, Leyton, E.

**P**ERMANENCY, Locum; excellent references and experience; 5 ft. 10 in.; good appearance. "Pharmacist," 47 Briscoe Mansions, Brixton Hill, S.W.

**D**ISAPPOINTED Minor candidate (23) requires whole or part time berth; good experiences and references. "Campyle," 14 Mayflower Road, S.W.

**P**ART-TIME Dispensership, with short hours, or Locum; immediate; 25; first-class experience; London preferred. Turner, 47 Tasman Road, Stockwell.

**A**SSISTANT (24), trustworthy, abstainer, 7 years' experience, desires engagement, London or near; unqualified. Alexander, 37 Wyatt Road, Forest Gate, E.

**P**H.C., D.B.O.A. (own apparatus), as responsible Manager; 30; married; in or out; hard worker; good-class business and salary required. 149/23, Office of this Paper.

**M**ANAGER; Locum, Relief; qualified; exceptionally good all-round experience; excellent references; reliable; disengaged. "Aspirin," 102 Briscoe Mansions, Brixton Hill, S.W.



**SURGERY** Dispenser; hospital experience; not qualified; references. "H.," 20 Priory Avenue, Walthamstow.

**RETAIL** Drug and Mixed Trade.—Assistant (24), over 7 years' experience, desires berth in England; salary £1 10s. weekly (outdoors). Robert Campbell, 6 Brodswel Terrace, Fairview, Dublin.

**ADVERTISER**; 27; unqualified; disengaged; experienced in all branches; well recommended; outdoors. "A. R.," 24 Grange Road, Kingston-on-Thames.

**QUALIFIED** requires situation in London district or South-West England; 9 years' good Retail experience. E. R. Samways, 13 Atherfold Road, Clapham.

**MANAGER**; married; 45; disengaged January 24; qualified; first-class experience; sea-side or good-class town preferred. "Alpha," 116 High Street, Brentford.

**DISENGAGED**; student (23), tall, abstainer, Dispensing experience, requires suitable situation; short hours or part-time. Hall, 9 Ingledeu Crescent, Roundhay, Leeds.

**EXPERIENCED**, qualified Manager; elderly; permanency; single; active; good Prescriber; disengaged; preferably to live on premises. "R. S.," 4 Museum Street, W.C.

**ASSISTANT** or Branch Manager; Mixed trade; Prescribing and Extracting; age 38; not qualified; married; disengaged. "Rhei," c/o 172 Clarmont Road, Moss Side, Manchester.

**QUALIFIED**, Branch Manager, Senior, or Locum; 11½ years' experience; Photography, Dispensing, and Counter; good references; disengaged. W. Hudson, 148 Portland Street, Lincoln.

**BIRMINGHAM**.—Assistant or Branch Manager; unqualified; 24; Prescriber, Dispenser, Photographic, Advertiser; 5 years' thorough Birmingham experience. "Forward," 89 St. James's Street, Brighton.

**JUNIOR** (21), tall, energetic Counterman, Photography and general experience, desires permanency; North Country; moderate salary; disengaged February. "Krameria" (140/22), Office of this Paper.

**DISENGAGED**; over 20 years' good practical experience; 3 years' late reference; moderate terms; abstainer; middle aged; single; unqualified. "Prompt," 5 Beaconsfield Cottages, Hillingdon, Middlesex.

**EXPERIENCED** Assistant; 31; tall; good appearance and references; strictly accurate Dispenser; obliging, willing; permanency; unsuccessful recent Minor. "Enterprise," 110 Lichfield Street, Walsall.

**UNQUALIFIED**; Manager or Senior; disengaged in two weeks; formerly manager in London for past 16 years; well up; splendid worker; satisfaction certain. Replies to "Scotch" (141/25), Office of this Paper.

**ASSISTANT** (30), 5 ft. 10½ in., unqualified, requires a permanency; Dispensing, Prescribing, Optics, and Photography; excellent references; 30s. "W. L.," c/o Pennington, Chemist, Dinnington, Rotherham.

**JUNIOR**, disengaged February, tall, seeks situation where can improve in Dispensing; 5 years' experience, Counter, Photographic, etc. State salary and full particulars to Gout, 17 Glas-kin Road, Hackney, N.E.

**SMART** qualified man, aged 30, with exceptional experience and references, seeks post as Senior, with view to early Partnership, in first-class business; might invest several hundreds. "International" (143/28), Office of this Paper.

**MANAGER**; unqualified; well up in Retail, thorough good Prescriber, Extractor (Painless System), own instruments; first-class testimonials and references; 30s. per week, with house, or 35s. outdoors. "Aspirin" (43/50), Office of this Paper.

**ASSISTANT** (28) seeks berth with good-class Pharmacist, Brighton or district; thoroughly experienced in all branches; high-class Dispensing; West-end and provinces; outdoors; disengaged shortly. "Vite," 12 Merton Avenue, Chiswick, W.

**DISENGAGED**; unqualified; 38; 10 years' Branch Manager in London; good Prescriber, smart Window-dresser; up-to-date methods and not afraid of work. Fletcher, 95 Church Street, Whitby.

**JUNIOR** (22) desires more experience in good-class Dispensing; Birmingham preferred; height 5 ft. 10 in.; good appearance and references. W. F. Gardner, 1 Park Street, Leamington Spa.

**ASSISTANT**; 22; smart Salesman, Dispenser, Photography, Window-dresser; where Dentistry could be learned preferred; disengaged. "Hector," 271 Camberwell New Road, London, S.E.

## WHOLESALE.

**ESSENCES**, Fruit, and Soluble Floral Ottos Maker, desires appointment; thoroughly experienced. 39/13, Office of this Paper.

**LABORATORY**.—Major man desires position; first-class Analytical experience and knowledge of the Manufacturing. 150/8, Office of this Paper.

**MAJOR** man, with many years' experience in the Laboratories of large London manufacturing Chemist's, seeks appointment. "Works" (146/27), Office of this Paper.

**PORTER** requires situation in a Wholesale and Retail Chemist and Drysaltery business; 7 years' wide experience; excellent references. Apply, 141/20, Office of this Paper.

**WELL-EDUCATED**, gentlemanly Assistant (21), 5 years' first-class Retail experience, excellent references, desires situation with Wholesale firm. 146/3, Office of this Paper.

**REPRESENTATIVE** seeks re-engagement; large personal connection Liverpool, Cheshire, North Wales, etc.; Drugs or Sundries. Clarke, 38 Rumney Road, Kirkdale, Liverpool.

**GENTLEMAN**, 15 years' first-class Wholesale experience, desires position as Chemist, Manager, or Representative; home or abroad. "Chemist," 18 Smithfield Street, Birmingham.

**SCOTLAND**.—Advertiser (36), with splendid connection, open to Represent good house on commission or otherwise; will be in London in a few days; interview requested. 149/6, Office of this Paper.

**TO** Speciality Proprietors.—Expert Advertisement Writer (Pharmaceutical training) offers occasional services; strong newsy copy; American style. Adwright, 11 Beverley Road, Chiswick, London.

**REPRESENTATIVE**; many years with leading Proprietaries and Toilet goods; London and provinces; good interviewer; best references; salary or commission; part expenses. Apply 144/27, Office of this Paper.

**ANALYST**, with 7 years' experience in the Laboratories of a large firm of Manufacturing Chemists and Druggists, is open to accept an appointment in Analytical or Experimental Chemistry. Please address, 129/33, Office of this Paper.

**REPRESENTATIVE** calling upon Doctors (also few Veterinary Surgeons) desires Agency; enterprising firm with good Specialities essential; successful interviewer; part expenses, commission. "Liquor" (146/19), Office of this Paper.

**PHARMACEUTICAL** Chemist, 15 years' experience in Wholesale, part as Chief Chemist, remainder as General Manager, seeks a change; thoroughly conversant with requirements of Medical Profession; good references. Apply, "Hiram" (146/2), Office of this Paper.

**SMART** Representative, with established personal connection among Chemists and Stores in Lancashire and the North of England, is open to represent additional up-to-date firm; energetic; highest references. Reply, in confidence, "Spec" (145/29), Office of this Paper.

**CHEMIST** or Laboratory Manager; practical knowledge of the Manufacture of Fine Pharmaceutical Products, including Aqueous Tinctures, Scale Preparations (Ferri Ammon. Cit. Hemoglobin, etc.), Solid Extracts (Nux Vom. Belladonna Fol.), Bland's Capsule Mass and Combinations, Disintegrating Tablets and Triturates; own formulae; moderate salary; highest references. 144/34 Office of this Paper.



## MISCELLANEOUS.

**MCADAM & TUCKNISS**, Sharedealers, have now removed from 30 Tranquil Vale, Blackheath, S.E., and the new address is Bank Chambers, Blackheath, S.E. Telephone: 81 Lee Green.

**SHARES FOR SALE** (free of commission, subject).—99 Carnval Preference, bid wanted; 300 Idris "A" 5 per cent. Preference, 4s. 3d.; 200 "A" Ordinary, 2s. 3d.; £320 4 per cent. Debenture 6d per £100 Stock; 150 Wright Layman 6 per cent. Preference, 22s.; 200 A. J. White Preference, 11s.

**WANTED** (subject).—40 Bleasdale, please offer; 50 Pears, 33s.; 20 E. Cook Preference, 108s. 6d.

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

**WE HAVE WHAT YOU REQUIRE**, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect. **RUDDUCK & CO.**, 262 OLD STREET, E.C.

**CHEMISTS' SHOP-FITTINGS (SECOND-HAND)**. — Ranges mahogany drawers, with bevelled-edge glass labels and out-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. **MATTHEWS, CHEMISTS' FITTER**, 14 and 16 MANCHESTER STREET, LIVERPOOL.

**POISONS SCHEDULE**, according to the New Act, reprinted from THE CHEMIST AND DRUGGIST, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front, list at the back) to hang up; price 6d., post free, from the Office of the C. & D., 42 Cannon Street, London, E.C.; or at the published price (4d.) from the leading Wholesale houses.

**TO** Trustees, Executors, Liquidators, and others.—Immediate cash to any amount for all descriptions of Chemists' Stocks, Fittings, Fixtures, Wholesalers' Oddments, and Druggists' Sundries; best prices given; cash advanced for any solvent business which can show a good turnover. Apply, in confidence, to J. H. Hemmings, 2 Seylla Road, Peckham Rye, S.E.

**CHEMIST FITTINGS.—SECOND-HAND HIGH-CLASS BARGAINS** to clear.—14-ft. Drug-fitting, fitted 60 Drawers, with glass labels, glass knobs, Bottle-lockers; mirror Poison-cupboard, Bottle-shelves, and Cornice; 6-ft. complete mahogany Dispensing-screen and Counter, including Sponge-case; 8-ft. Wall-case, bottom and top part mirror recess; 10-ft. glass-fronted Serving-counter-case, the lot £49 10s.; estimates free. **H. Mills, Chemists' Complete Shop-fitter and Shopfront Builder**, Steam Works, 163-5 Old Street, E.C.

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10<sup>D</sup>

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It would be such an eye opener to the drug trade if they could only either accompany me on my nearly 1,000 mile travelling each week and hear the nice things my old clients say of me, or see the names on my register of the most prominent retail or mail order chemists of the present day. That reminds me

### SCOTLAND IS AGAIN WAKING UP

and that appointments in Edinburgh for this week end should reach me by letter or wire to-morrow the 15th by second post 10 a.m. latest. Please take advantage of this visit as I cannot say how long it may be before I am up again. Excellent Scottish testimonial, village business, just to hand. "Dispensing three times as many prescriptions" it reads.

**BERNARD SLACK,**  
Princes Chambers, Wolverhampton.

**A REAL BARGAIN.**—In **EXCELLENT CONDITION** and **READY** for **IMMEDIATE DESPATCH**.—10-ft. Fitting with Drawers, Lockers, and Shelving, complete; 6-ft. mahogany Wall-case in two heights; 6-ft. mahogany and plate-glass Dispensing-screen and Counter; 10-ft. mahogany and plate-glass Serving-counter; 3 ft. 8 in. mahogany and plate-glass Counter-case; mahogany Perfume-cases and Desk; Baby Silent Salesman; 40 guineas complete. **PHILIP JOSEPHS & SONS, LTD.**, 95 Old Street, London, E.C. For further list of "READY for USE" BARGAINS, see page 4 of January 1 issue.

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**A** **TWENTY-FOUR** page booklet showing the adult doses in ordinary cases of the principal medicinal agents, with metric equivalents for dispensing and a complete table of atomic weights, comprising the B.P. figures, and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4 in. by 2½ in., and can be carried in the vest pocket. To be obtained from **THE CHEMIST AND DRUGGIST (Book Department)**, 42 Cannon Street, London, E.C., for **THREE PENNY STAMPS PER COPY, POST FREE.**

**A.B.C.** System of Accounts for Chemists; knowledge of Book-keeping unnecessary; works out gross and net profits, balance-sheet, and income-tax statement with guaranteed certainty; Seventh Edition; does unfailing justice to the man and his business. Particulars and testimonials free, **McQueen & Co., Moat Road, E., Leicester.**

**REQUIRED**, price-lists and quotations for Toilet-preparations for Export; International Representation and Trading Co., St. Stephen's House, Victoria Embankment, Westminster, London, S.W.

### DECEMBER 1909 v. DECEMBER 1908.

A Pharmacist writes this week: "Am glad to say that my returns are going up, and that I can see the benefit of your system. My returns for December 1909 are £24 over those for December 1908, which is very satisfactory." What this Pharmacist has done you can do, and with very little trouble. Increase in the sales of your own Specialities is what I aim at. Booklet "HOW TO INCREASE YOUR BUSINESS," sent post free to Pharmacists only.

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From 3/9 doz. In all widths and qualities. Manufactured by—**THE NORWICH CRÊPE CO. (1856) Ltd., St. Augustines, NORWICH.**

Samples Free. Special Terms for Quantities.

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THE following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, Kennington Road, London, S.E.

London College of Chemistry, 323 Clapham Road, London, S.W.

Liverpool School of Pharmacy, Colquitt Street, Liverpool.

Bath and West of England School of Pharmacy, Cleveland Place, Bath.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

Borough Polytechnic Institute, Borough, London, S.E.



# EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

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### BOOKS AND PERIODICALS.

**MINOR** and other books, Harmsworth's "Encyclopædia," bound, 8 vols. BIRKETT, Chemist, Wishaw.  
**WHAT** offers for "Pharmaceutical Journal Formulary" and "Pharmaceutical Formulas," both as good as new. "Nemo" (142/14), Office of this Paper.

### DRUGS AND CHEMICALS

**2½ lb. POTASS. iodid**, 2 lb. bismuth carb., 4 oz. saffron; what offers? 27 Bendall Street, Lisson Grove, N.W.

### FORMULÆ.

**FORMULA** for sale, liquid brass polish. FRANCE, 42 Vartry Road, London, N.

**BOOT-POLISH** formulæ, black, brown; well tested; up to date. Samples and particulars on application, SIMCO, Chemist, Wellington.

**FORMULÆ**.—Non-poisonous green pain-killer, splendid for chilblains, sore throat, etc.; non-poisonous nursery pomade, standard insecticide, elegant; unique horse-cough cure; original formulæ; 5s. each; samples two stamps. ROWE, Chemist, Arklow, Ireland.

**BROOKS'S** reliable recipes; 25 years' reputation; "occasional pills" for ladies, very reliable, safe; "tic specific," acts instantly, never fails; "glycerine and licorice balm," pleasant cough-cure; "corn solvent," instant ease, painless; "ringworm specific," cures long-standing cases; preparations easily made; give universal satisfaction; 25 years' increasing sale; detailed lists free; recipes 1s. each, 3 for 2s. 6d., post free. TOM BROOKS, Chemist, Hornsey, London, N.

### OPTICAL AND PHOTOGRAPHIC.

**FOURTEEN** rolled-gold spectacle and pincenez frames, 18s. "OPTOLOGIST" (145/14), Office of this Paper.

### PROPRIETARY ARTICLES.

**FIRST OFFER**.—2 1s. Harlene; 1 Eno's fruit salt; 1 2s. 9d. Vitamins; 2 Warner's safe pills; 2 Kaffir tea; 2 Harroline pills. Apply, 146/39, Office of this Paper.

### SHARES.

**SHARES** for Sale. See p. 62.

### SHOP FITTINGS.

**FOUR** show-jars; 4 black-and-gold stands. DAY, 2 Marnock Road, Brockley.

**UFRIGHT** Homœopathic case, about half-gross tinctures, pilules; stamp for particulars. 146/10, Office of this Paper.

### MISCELLANEOUS.

**WINDOW** attraction; striking plaster model; advertise cough-mixture; 12s. 6d. PRICE, Chemist, Lewisham.

**TELEPHONE** (Citaphone); shop to warehouse, complete with about 40 ft. insulated lead-covered wire, and 2 Leclanché cells; good instruments; not a toy; cost 50s.; take 15s. or near offer. LIVESY, Preston.

**DENTAL** chair, "Morrison," maroon plush, excellent condition, perfect order, accept £8; also Harris's "Dentistry," 41 1s.; also Andrew Wilson's "Modern Physician," 5 vols., as new; what offers? BROWN & PINDOCK, Bearwood, Birmingham.

No. 2. JUNIOR Kodak camera, 25s.; 260 whole-plate mounts, 5s.; second-hand 1½-plate camera, 10s.; 5 gross 1d. shampoo-powders, 3s. 9d. gross; 3-pint seltzogene, 3s. 3d.; panoramic camera, 12s. 6d.; whole-plate camera, 3 mahogany slides, Beck's symmetrical lens, £5 5s., or offer; magic-lantern with slides, 30s. LEWIS, 27 Glenthorne Road, Hammersmith.

### WANTED.

**NEST** of drawers; 4 ft. high, 8 ft. long. SHARMAN, Northwood. **TINCTURE** press; about ½ gal. EARDLEY, Chemist, Glossop Road, Sheffield.

**OLD** artificial teeth bought; cash return post. BROOKE, 34 Trinity Street, Boston.

**SHOP-ROUNDS**; all sizes; good labels. Particulars, price to PARKER, 23 Moat Road, Leicester.

**OPTICAL** trial-case and accessories; lowest price carriage paid. Fullest particulars to "OPTICS," 48 Deansgate, Manchester.

**OPTICAL** books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

**DENTAL** chair, dental engine, gas apparatus, show-case with specimens; all in good condition. Particulars and lowest prices, JOHNSON, 275 High Street, Lewisham, S.E.

"CHEMIST AND DRUGGIST," December 28, 1901; June 27 and December 26, 1903; June 25 and December 31, 1904; must contain the indices. Send p.c. with price to "W. T. O." (15/15), Office of this Paper.

## Coming Events.

This Section of the "C. & D." is reserved for advance notices of meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, January 17.

**Society of Chemical Industry, London Section**, Burlington House, Piccadilly, W., at 8 p.m. Mr. E. Hatschek on "The Direct Separation of Emulsions by Filtration and Ultra-filtration"; Messrs. R. Robertson and B. J. Smart on "The Significance of the Abel Test of Guncotton and Nitroglycerin"; and Mr. A. F. Joseph on "The Estimation of Iron in Ferric Solution."

Wednesday, January 19.

**Pharmaceutical Society of Great Britain, North British Branch**, 36 York Place, Edinburgh, at 8.30 p.m. Dr. Alexander Goodall, F.R.C.P.E., on "The Physiological Standardisation of Drugs, with special reference to Liquid Extract of Ergot."

**The Chemists' Forty-fourth Annual Ball**, Wharnclyfe Rooms, Great Central Hotel, London, N.W., at 9 p.m. Tickets (lady's, 12s. 6d.; gentleman's, 17s. 6d.) from Mr. Frank U. Stamp, 29 High Street, Hampstead, N.W.

**Royal Society of Arts**, John Street, Adelphi, London, W.C., at 8 p.m. Count Hirokichi Mutsu on "The Japan-British Exhibition, 1910."

**National Union of Assistant Pharmacists, Liverpool Branch**, Avondale Café, Church Street, at 7.15 p.m. Whist-drive. Tickets (2s. each) from Mr. J. J. B. Waldron, 427 Mill Street.

**Manchester Pharmaceutical Association**, Whist-drive. Tickets (3s. each) from Mr. J. Grier, M.Sc., The University, or Mr. W. Griffiths Hughes, 17 Deansgate.

Thursday, January 20.

**Chemists' Assistants' Association**, 73 Newman Street, Oxford Street, London, W., at 9 p.m. Miss M. E. Buchanan, "A Talk upon Groups and Periods."

**Chemical Society**, Burlington House, Piccadilly, London, W., at 8.30 p.m. Among the papers to be communicated are the following: "The Alkaloids of Ergot" (Part II.), by Messrs. G. Barger and A. J. Ewins; "The Constituents of Colocynthis," by Dr. F. B. Power and C. W. Moore; and "The Resin Acids of the Conifera" (Part II., Meta Resinol), by Messrs. T. H. Easterfield and J. Bee.

Friday, January 21.

**Royal Institution of Great Britain**, Albemarle Street, Piccadilly, London, W., at 9 p.m. Sir James Dewar on "Light Reactions at Low Temperatures."

**Bournemouth Pharmaceutical Association**, Gervis Hall Restaurant, at 8 p.m. Dr. Neil MacGillcuddy will lecture on "Cancer."

THE ANNUAL DINNER of the Cardiff Pharmaceutical Association is to be held at the Angel Hotel on January 26, when the Lord Mayor of Cardiff and Mr. C. B. Allen (London) are expected to be present. Tickets (6s. each) may be had from Mr. E. Poole, Hon. Secretary, 71 Broadway, Cardiff.

THE MEETING of the Barnsley Chemists' Association arranged for January 27 will not be held, owing to the coming into force of the Cinematograph Act. The annual dinner of the Association will be held on that evening at Rotherham.

THE ANNUAL DINNER of the Rotherham, Barnsley, and Doncaster Associations of Pharmacists will be held at the Crown Hotel, Rotherham, on January 27, at 6.30 p.m. Tickets (5s. 6d. each) can be had from Mr. W. Dabbs, Hon. Secretary, 101 St. Ann's Road, Rotherham.

A DANCE is to be held in connection with the Chemists' Assistants' Association, in the International Hall, Café Monico, Piccadilly, London, W., on January 27. Tickets (3s. each) may be had from Mr. E. Thompson, 73 Trouville Road, Clapham Park, S.W.

THE ANNUAL CINDERELLA DANCE of the Western Pharmacists' Association will be held in the Alexandra Hall, Frascati's Restaurant, Oxford Street, London, W., on February 2. Tickets can be obtained from Mr. C. T. Allen, 20 High Road, Kilburn, N.W.

THE ANNUAL DINNER of the Stockport Pharmacists' Association will be held on February 10, at which Mr. W. S. Glyn-Jones is expected to be present. Particulars from Mr. T. K. Westerman, Hon. Secretary.

THE C. & D. Diary coupon postcards should be filled up and posted to 42 Cannon Street as soon as possible.

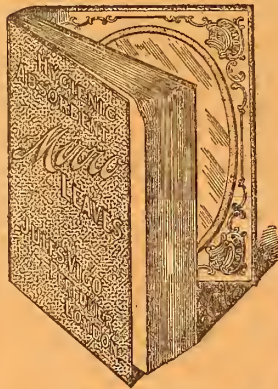


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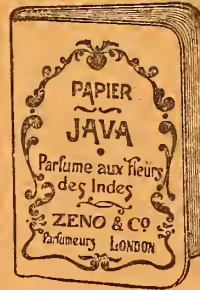


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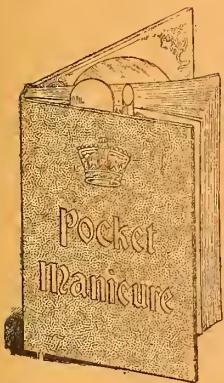


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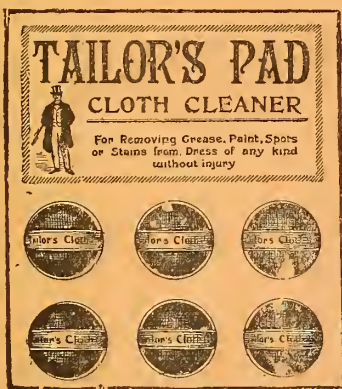
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